

Service Manual

XG-M

(CODE NO. 2019)



MINOLTA

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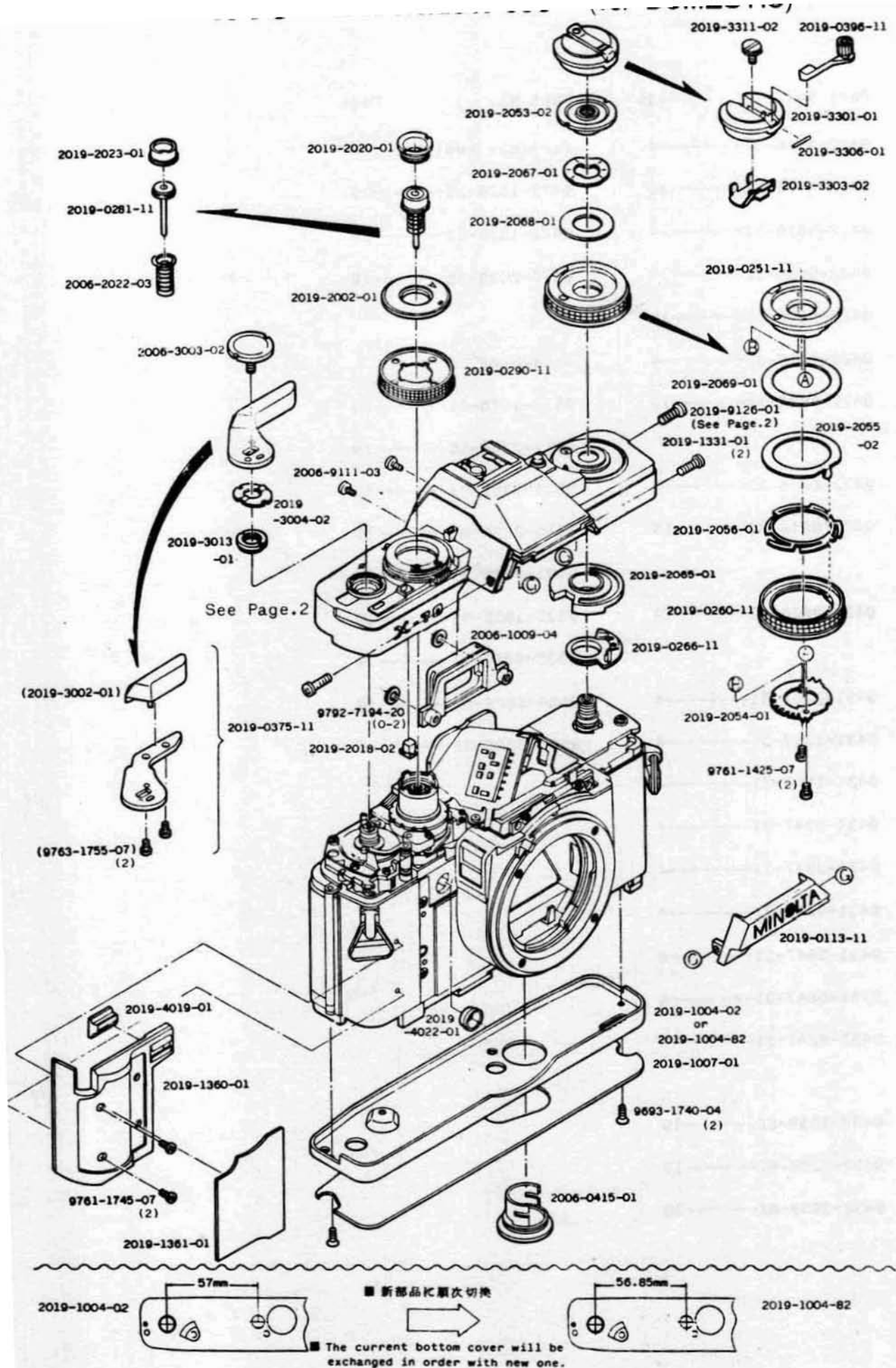
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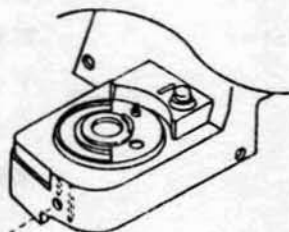
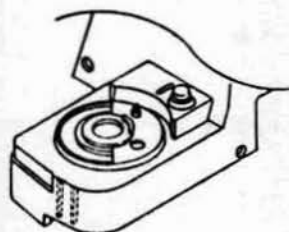
Part No.	Part Name	Qty.
2019-0113-11	Front top cover set 正面上部カバーセット	1
2019-0251-11	ASA cover plate set ASA カバー板セット	1
2019-0260-11	ASA operation knob set ASA 操作ノブセット	1
2019-0266-11	ASA contact holder set ASA 接片ホルダーセット	1
2019-0281-11	Shutter release button set シャッター鉤軸セット	1
2019-0290-11	Shutter speed dial/Function selector シャッターダイヤルセット	1
2019-0375-11	Film advance lever set 巻上レバーセット	1
(2019-3002-01)	Film advance lever knob 巻上レバー指当て	1
(9763-1755-07)	Tap tite screw 十字穴付半丸皿頭タップタイトねじ	2
2019-0396-11	Rewinding handle set 巻戻しハンドルセット	1
2006-0415-01	Battery holder set 電池ケース蓋	1
2019-1004-02 or 2019-1004-82	Bottom cover 下カバー	1
2019-1007-01	Sheet 下カバー用保護シート	1
2006-1009-04	Eye-piece frame 接眼枠	1
2019-1331-01	Screw 止めビス	2
2019-1360-01	Grip グリップ	1
2019-1361-01	Grip leather グリップ貼皮	1
2019-2002-01	Shutter speed dial スピードダイヤル銘板	1
2019-2018-02	Auto lock button オートロック鉤	1
2019-2020-01	Shutter release button pressure シャッター鉤押え	1
2006-2022-03	Shutter release button spring シャッター鉤スプリング	1
2019-2023-01	Shutter release button cap シャッター鉤キャップ	1
2019-2053-02	ASA dial nut ASA 押えナット	1
2019-2054-01	ASA click plate ASA クリック板	1
2019-2055-02	ASA dial ASA 銘板	1
2019-2056-01	ASA spring ASAスプリング	1
2019-2065-01	ASA contact holder guide ASA 接片ホルダーガイド	1
2019-2067-01	Pressure spring ASA操作リング押えバネ	1
2019-2068-01	Operation knob sheet ASA操作リングシート	0-1
2019-2069-01	ASA dial sheet ASA 銘板シート	1
2006-3003-02	Winding lever pressure 巻上レバー押え	1
2019-3004-02	Winding lever friction 巻上レバーフリクション	1
2019-3013-01	Top cover nut 上カバー止めナット	1
2019-3301-01	Rewindig knob 巻戻しノブ	1
2019-3303-02	Rewindin handle spring 巻戻しバネ	1
2019-3306-01	Rewinding handle axis 巻戻しハンドル軸	1
2019-3311-02	Rewinding knob screw 巻戻しノブビス	1
2019-4019-01	Self-timer window セルフ表示窓	1
2019-4022-01	Reflection ring セルフ表示反射環	1
2006-9111-03	Screw 特殊止めビス	2
2019-9126-01	Screw 特殊止めビス	1
9693-1740-04	Phillips type tapping screw 十字穴付半丸皿頭タッピングねじ	2
9761-1425-07	Tap tite screw 十字穴付なべ頭タップタイトねじ	2
9761-1745-07	Tap tite screw 十字穴付なべ頭タップタイトねじ	2
9792-7194-20	Tap tite screw 薄ワッシャー	0-2

or
2019-0130-25

(for XG-M)

2019-0130-11

2019-0130-25



- 2019-9126- and 2019-1111-01(Refer to P.15) should be used on the top cover (0130-25) with a screw-hole.
- ビス穴のある上カバー (0130-25) には2019-9126-01, 2019-1111-01 (P. 15参照) を使用して下さい。

2019-1351-01



9613-1650-01(4)

2019-1052-01

2006-9245-04

2013-9246-01

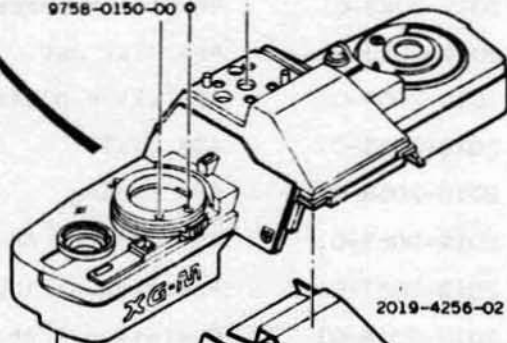
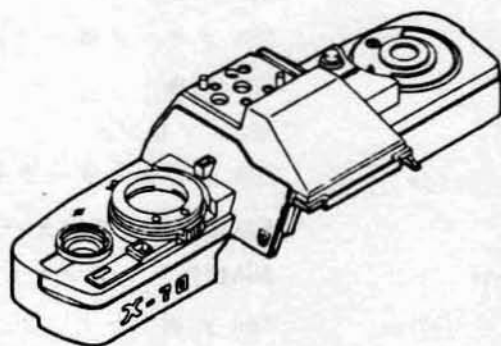
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2019-0132-11

9611-1616-07

2019-2070-03

9756-0150-00



2019-4256-02

2019-1018-01

2006-1054-03

2006-1069-01

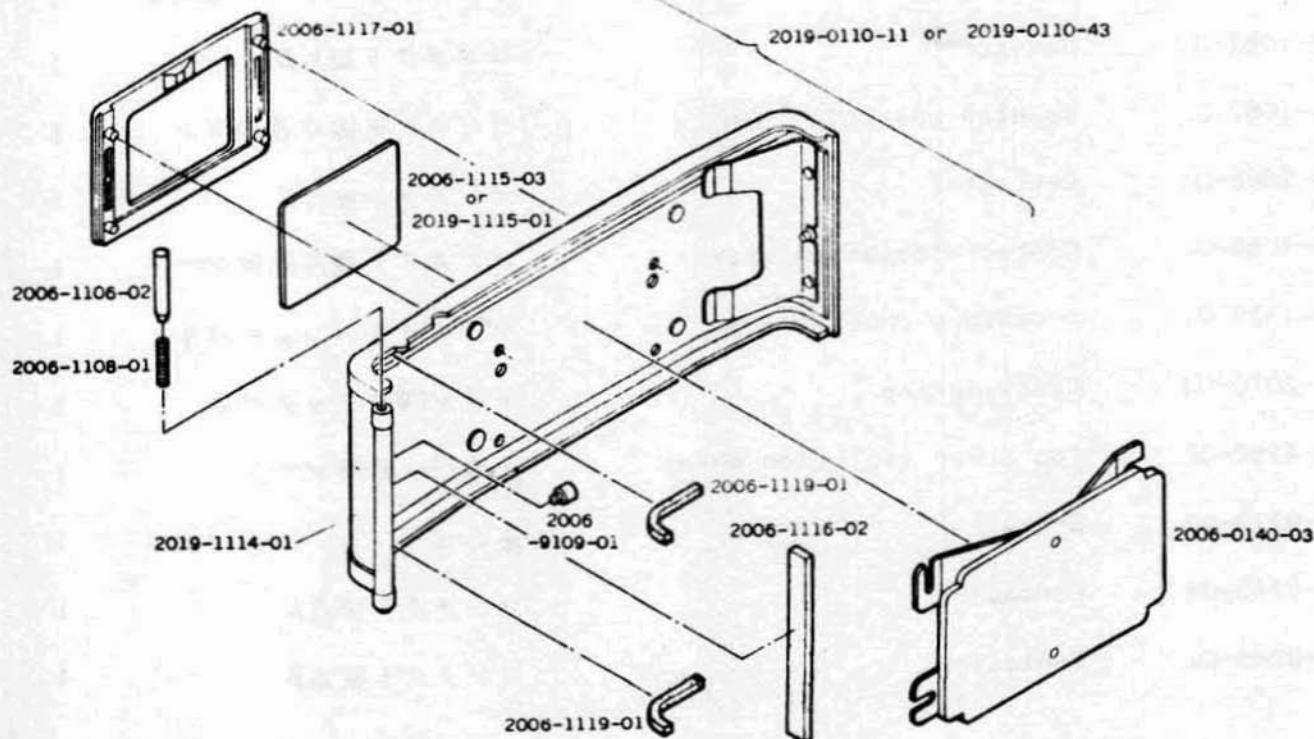
2013-1066-01

9796-3155-87

2006-1061-02

2006-9112-02

Part No.	Part Name		Qty
2019-0130-11 2019-0130-25 ^{or}	Top cover set(for XG-M)	上カバーセット	1
2019-0134-11	Top cover set (for X-70)	上カバーセット	1
2019-0132-11	Accessory shoe base set	アクセサリーシュー座	1
2019-1018-01	Counter window	カウンター窓	1
2019-1052-01	Accessory shoe	アクセサリーシュー	1
2006-1054-03	Accessory shoe set plate	アクセサリーシュー取付板	1
2006-1061-02	Contact-D	コンタクト接片D	1
2006-1062-02	Counter operation pin	コンタクト接片連動ピン	1
2013-1068-01	Contact-E	コンタクト接片E	1
2006-1069-02	Contact isolation sheet	コンタクト接片絶縁シート	1
2019-1315-01	Accessory shoe spring	アクセサリーシューバネ	1
2019-2070-03	Click spring	メインSWクリックバネ	1
2019-4256-02	Top cover isolation sheet	上カバー絶縁シート	1
2006-9112-02	Screw	止めビス	1
2006-9245-04	Contact-A	コンタクト接点A	1
2006-9246-02	Contact-B	コンタクト接点B	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9613-1650-01	Phillips type screw	十字穴付半丸皿頭小ねじ	4
9758-0150-00	Steel ball	スチールボール	1
9798-3155-87	Washer	薄ワッシャー	1



(2019-0110-11)

2006-1115-03

DIN	ASA	24	200
12	12	27	400
15	25	30	600
18	50	33	1600
21	100	36	3200

MINOLTA CAMERA CO. LTD
JAPAN

(for XG-M)

(2019-0110-43)

2019-1115-01

ISO	24	200
(DIN · ASA)	27	400
12	30	800
15	33	1600
18	36	3200
21	39	6400

MINOLTA CAMERA CO. LTD
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(for XG-M & X-70)

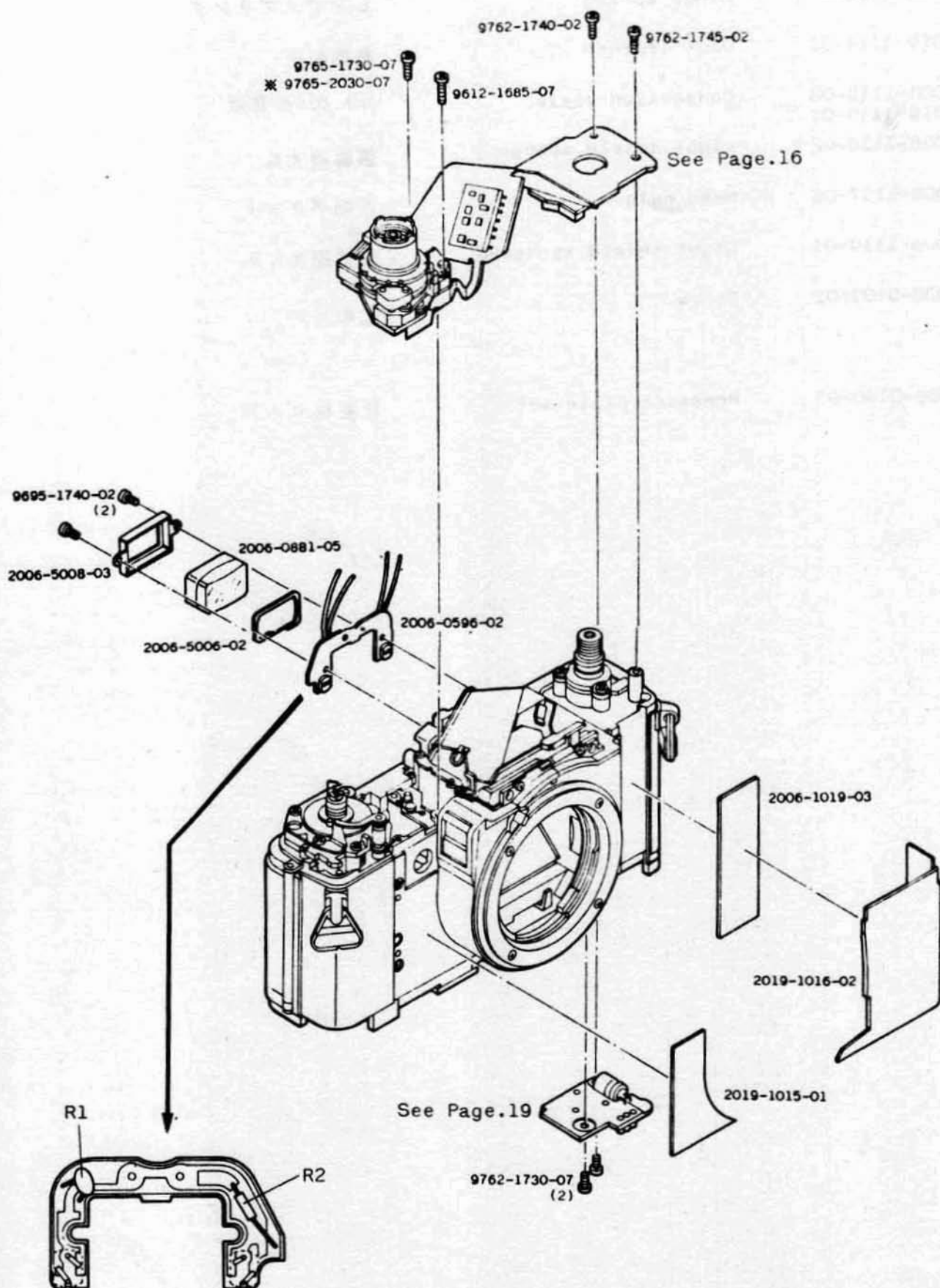
■ Changed item.....ASA indication has changed to ISO.

■ The current parts will be exchanged in order with new ones for XG-M.

■ 変更内容.....ASA表示からISO表示に変更

■ XG-Mは順次新部品に切替

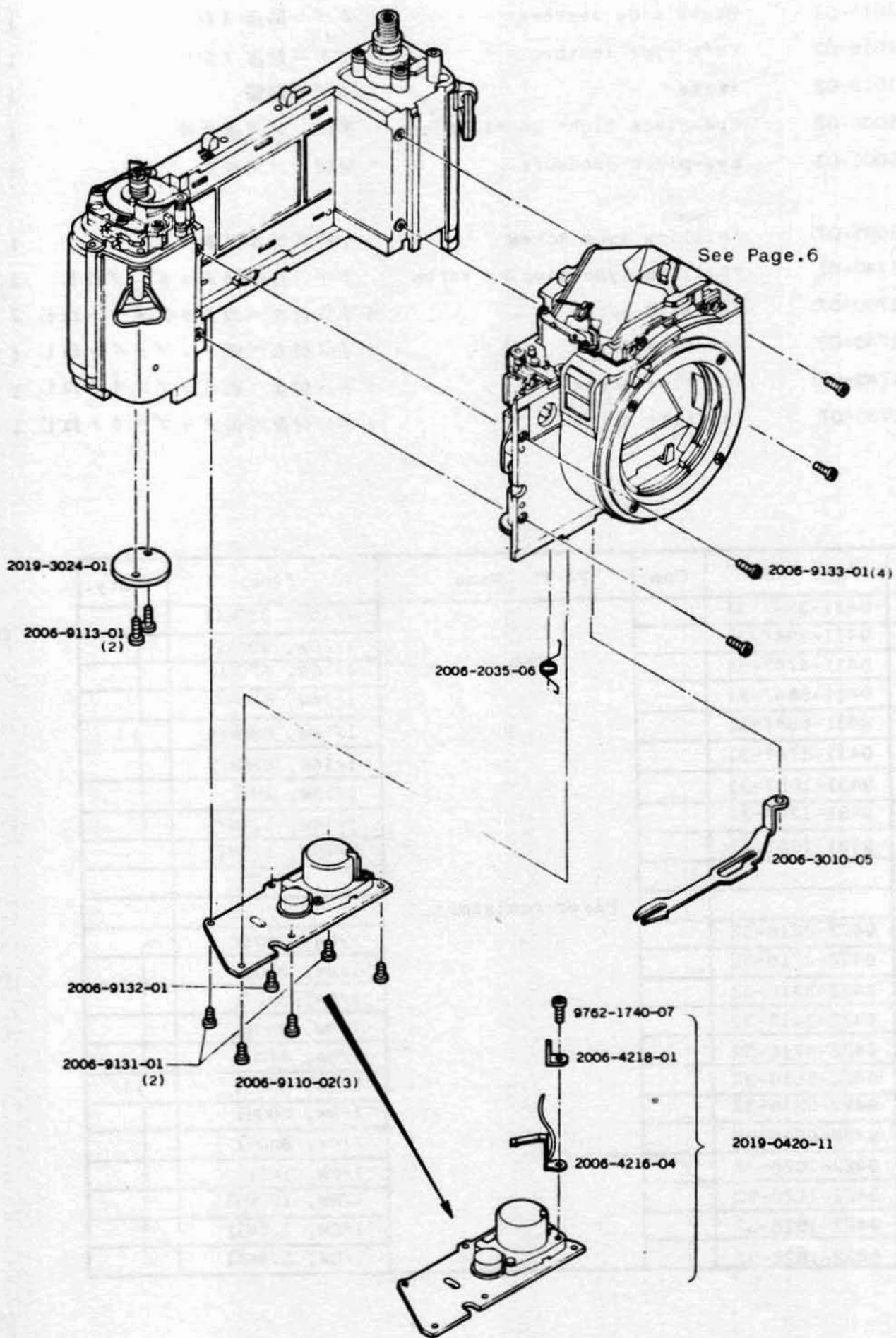
Part No.	Part	Name	Qty.	
2019-0110-11 2019-0110-43	or	Back cover set	裏蓋セット	1
2006-1106-02		Hinge axis-A	ヒンジ軸A	1
2006-1108-01		Hinge spring	ヒンジスプリング	1
2019-1114-01		Back leather	裏蓋貼皮	1
2006-1115-03 2019-1115-01	or	Conversion scale	ASA, DIN換算板	1
2006-1116-02		Light shield sponge	裏蓋遮光片	1
2006-1117-01		Memo halder	裏蓋ポケット	1
2006-1119-01		Light shield sponge-B	裏蓋遮光片B	2
2006-9109-01		Screw	止めビス	1
2006-0140-03		Pressure plate set	圧着板セット	1



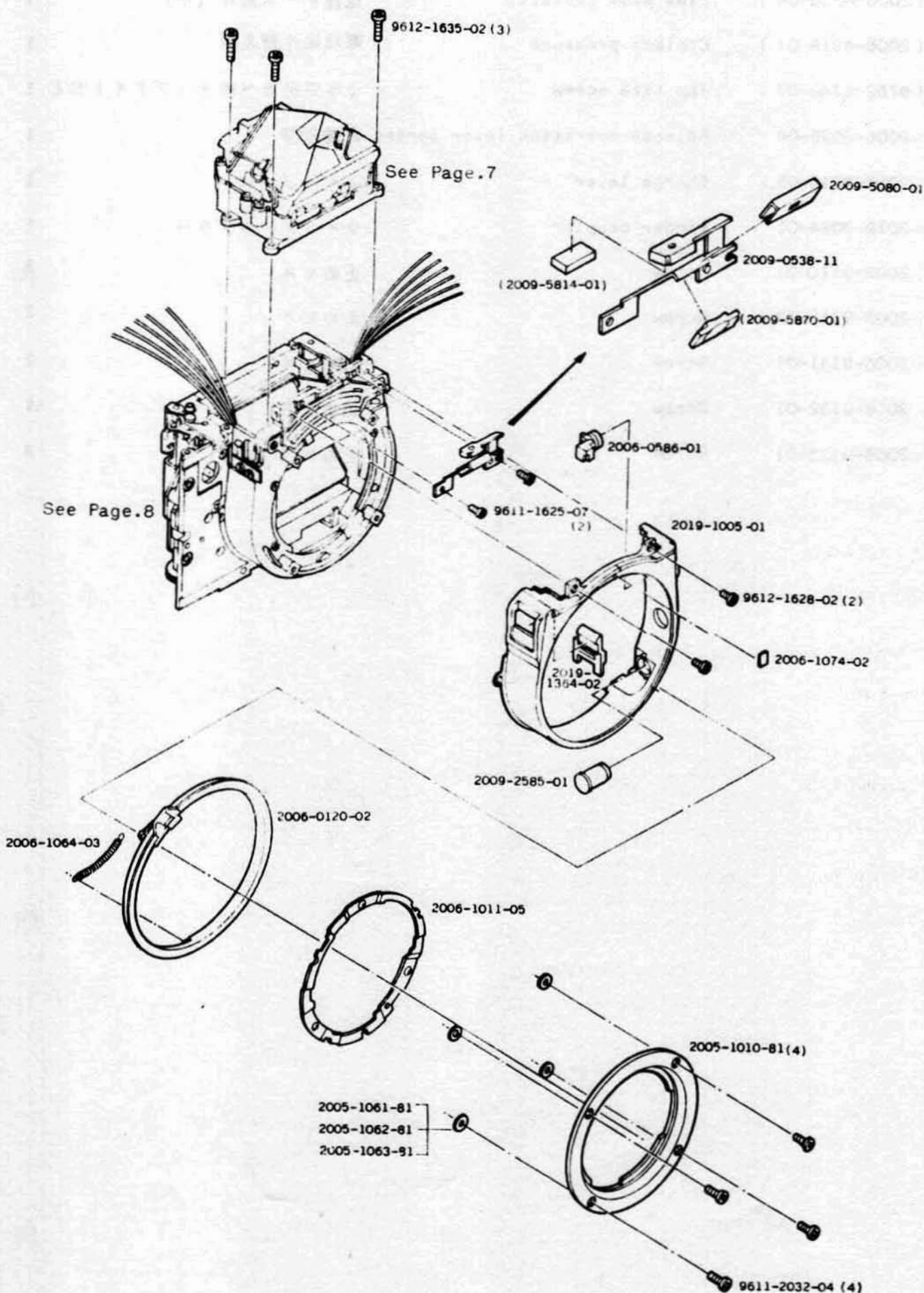
※ The screw for damaged hole
ねじ穴不良対策ビス

Part No.	Part. Name		Qty.
2006-0596-02	Cds circuit base plate set	Cds基板セット	1
2006-0881-05	Eye-piece set	接眼レンズセット	1
2019-1015-01	Right side leather	ボデー貼皮 (右)	1
2019-1016-02	Left side leather	ボデー貼皮 (左)	1
2006-1019-03	Plate	ボデー貼板	1
2006-5006-02	Eye-piece light shield plate	接眼レンズ遮光枠	1
2006-5008-03	Eye-piece pressure	接眼レンズ押え	1
9612-1685-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	2
9762-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9762-1740-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-1745-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9765-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1

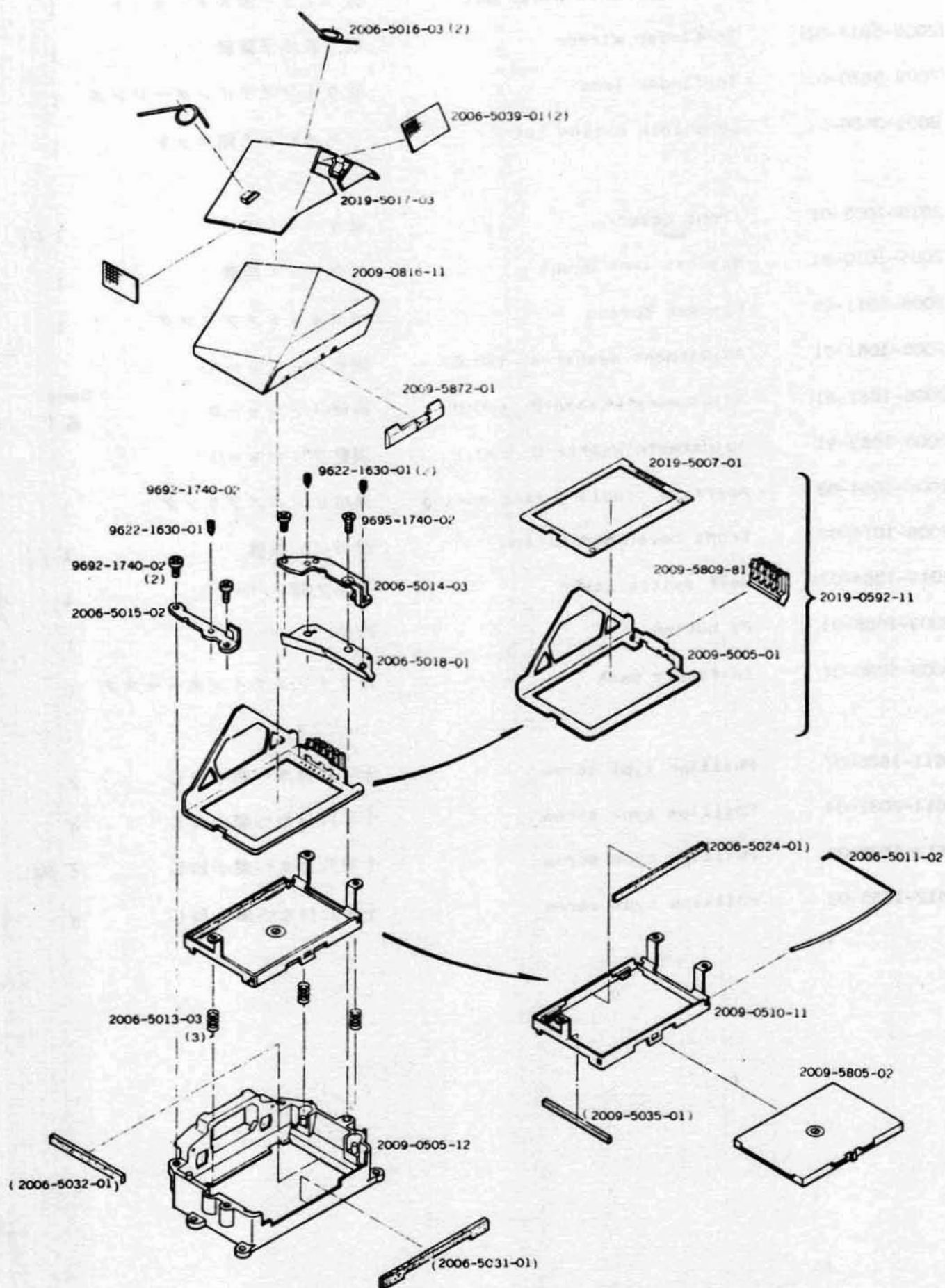
Symbol	Part No.	Com	Part Name	Type.	Qty.
R1	9431-3347-31		Fixed resistor	1/16W, 330K Ω	
	9431-3947-31			1/16W, 390K Ω	
	9431-4747-31			1/16W, 470K Ω	
	9431-5647-31			1/16W, 560K Ω	
	9431-6847-31			1/16W, 680K Ω	1
	9431-8247-31			1/16W, 820K Ω	
	9431-1057-31			1/16W, 1M Ω	
	9431-1257-31			1/16W, 1.2M Ω	
	9431-1557-31			1/16W, 1.5M Ω	
R2	9422-2216-32			1/8W, 200 Ω	
	9422-2716-32			1/8W, 270 Ω	
	9422-3316-32			1/8W, 330 Ω	
	9422-3916-32			1/8W, 390 Ω	
	9422-4716-32			1/8W, 470 Ω	
	9422-5616-32			1/8W, 560 Ω	1
	9422-6816-32			1/8W, 680 Ω	
	9422-8216-32			1/8W, 820 Ω	
	9422-1026-32			1/8W, 1K Ω	
	9422-1226-32			1/8W, 1.2K Ω	
	9422-1526-32			1/8W, 1.5K Ω	
	9422-1826-32			1/8W, 1.8K Ω	



Part No.	Part Name		Qty.
2019-0420-11	Battery case base plate set	電池ケース台板	1
(2006-4216-04)	Plus side contact	電池ケース接片 (+)	1
(2006-4218-01)	Contact pressure	電池接片押え板	1
(9762-1740-07)	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
2006-2035-06	Release operation lever spring	吸着用SP	1
2006-3010-05	Charge lever	チャージレバー	1
2019-3024-01	Winder coupler	ワインダーカプラー	1
2006-9110-01	Screw	止めビス	3
2006-9113-02	Screw	止めビス	2
2006-9131-01	Screw	止めビス	2
2006-9132-01	Screw	止めビス	1
2006-9133-01	Screw	止めビス	4

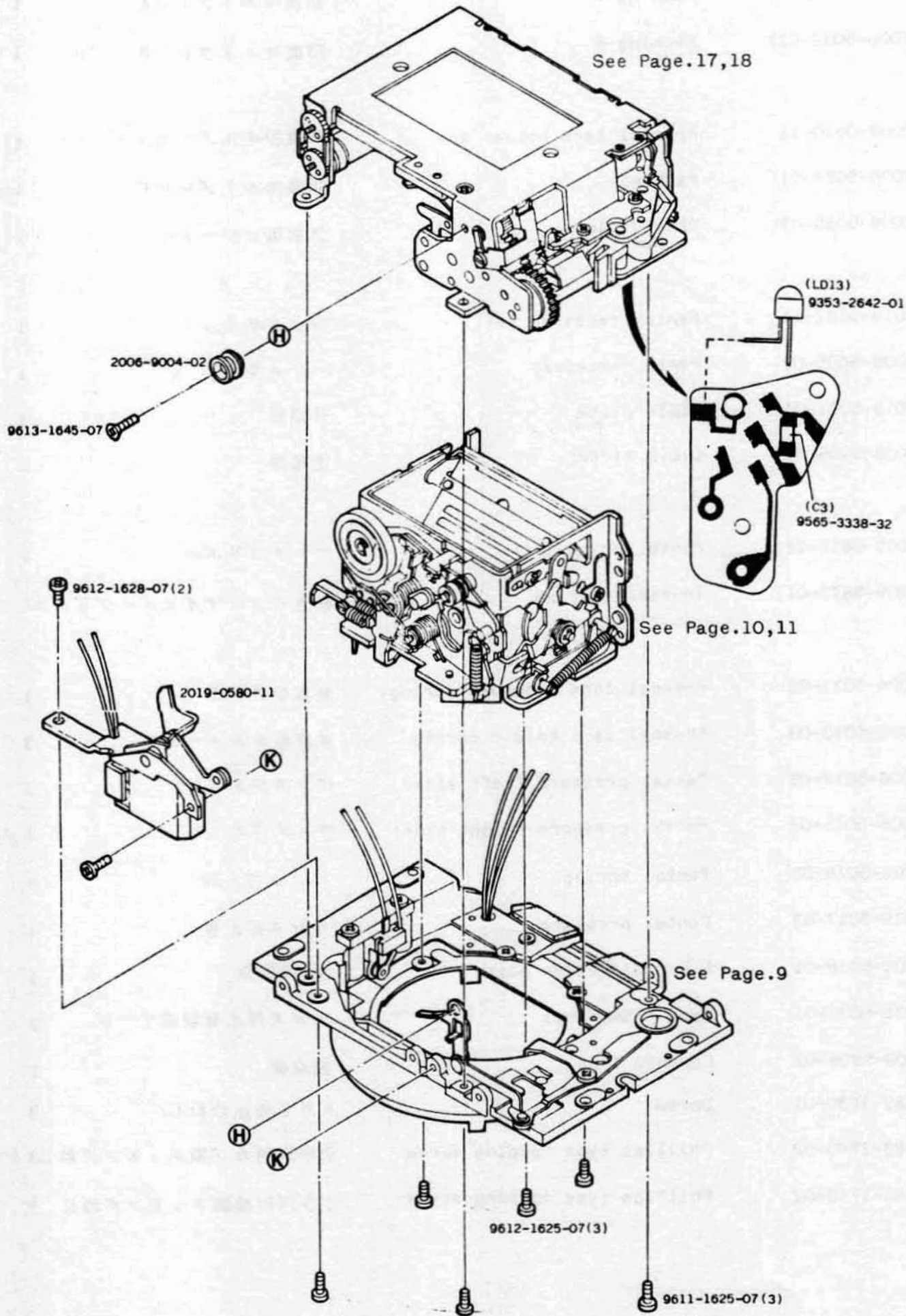


Part No.	Part Name		Qty.
2006-0120-02	Aperture coupling ring set	連結リングセット	1
2009-0538-11	In-finder base plate set	絞りミラーホルダーセット	1
(2009-5814-01)	In-finder mirror	絞り表示平面鏡	1
(2009-5870-01)	In-finder lens	絞りインファインダーレンズ	1
2006-0586-01	Lens lock button set	レンズロック釦セット	1
2019-1005-01	Front cover	前カバー	1
2005-1010-81	Bayonet lens mount	バヨネット座板	1
2006-1011-05	Bayonet spring	バヨネットスプリング	1
2005-1061-81	Adjustment washer-A t=0.02	調整ワッシャーA	} Some 若干
2005-1062-81	Adjustment washer-B t=0.05	調整ワッシャーB	
2005-1063-81	Adjustmetn washer-C t=0.1	調整ワッシャーC	
2006-1064-03	Aperture coupling ring spring	連結リングスプリング	1
2006-1074-02	Front cover indication	前カバー指標	1
2019-1364-02	Self switch lever	セルフSWレバー	1
2009-2585-01	PV button	PV釦	1
2009-5080-01	In-finder mask	絞りインファインダーマスク	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9611-2032-04	Phillips type screw	十字穴付なべ頭小ねじ	4
9612-1628-02	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1635-02	Phillips type screw	十字穴付なべ頭小ねじ	3

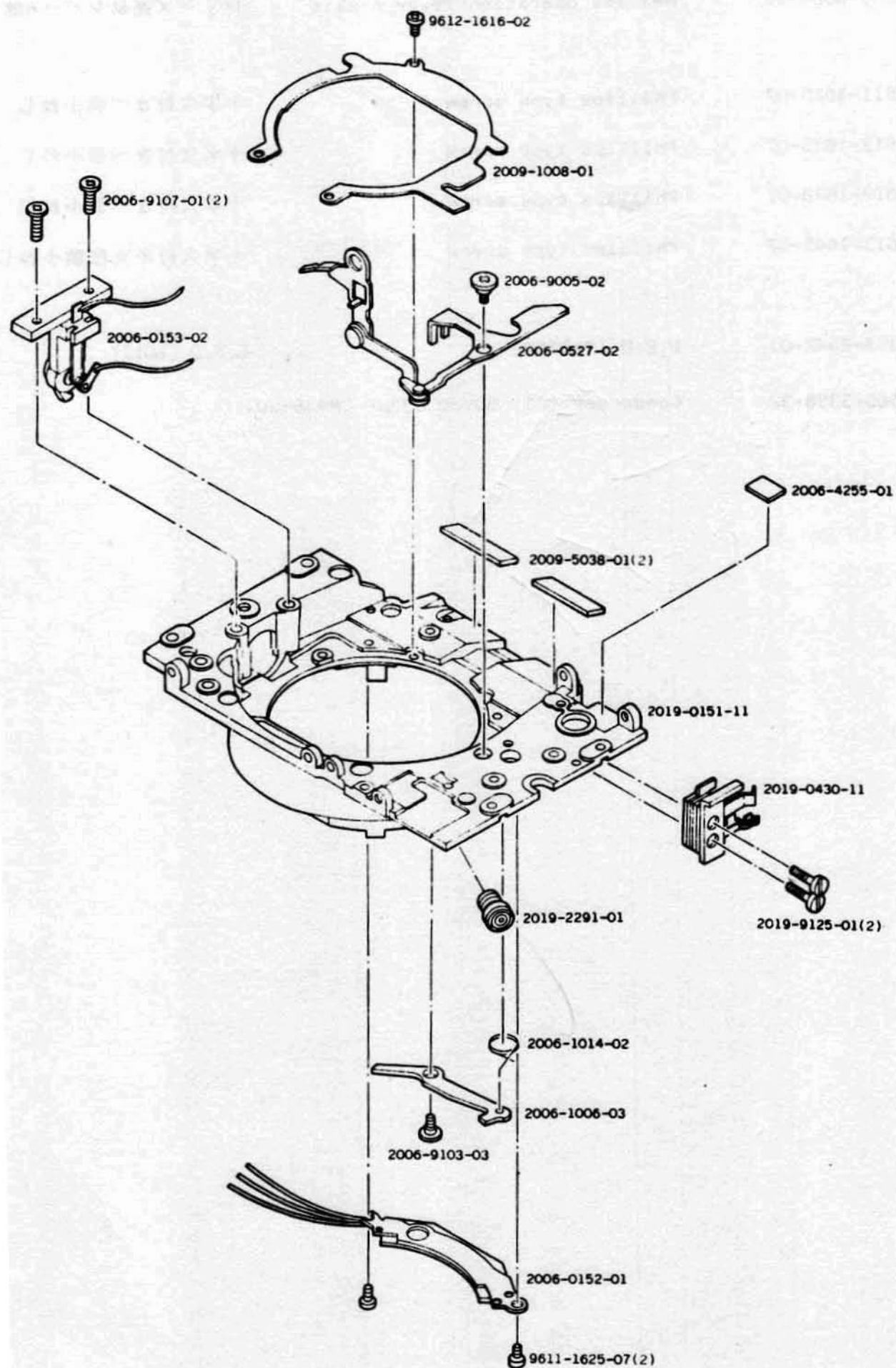


Part No.	Part Name		Qty.
2009-0505-12	Penta. holder set	ペンターホルダーセット	1
(2006-5031-01)	Packing-A	防塵モルトブレンA	1
(2006-5032-01)	Packing-B	防塵モルトブレンB	1
2009-0510-11	Fresnel lens holder set	焦点板ホルダーセット	1
(2006-5024-01)	Packing-C	防塵モルトブレンC	1
(2009-5035-01)	Shield plate	防塵塩ビシート	1
2019-0592-11	Penta. receiver set	ペンタ受セット	1
(2009-5005-01)	Penta. receiver	ペンタ受	1
(2019-5007-01)	Scale plate	目盛板	1
(2009-5809-81)	L.E.D mirror	光路棒	1
2009-0816-11	Penta. prism set	ペンタプリズム	1
(2009-5872-01)	In-finder prism	絞りインファインダープリズム	1
2006-5011-02	Fresnel lens pressure spring	焦点板押えSP	1
2006-5013-03	Fresnel lens holder spring	焦点板ホルダーSP	3
2006-5014-03	Penta. pressure (Left side)	ペンタ押え (左)	1
2006-5015-02	Penta. pressure (Right side)	ペンタ押え (右)	1
2006-5016-03	Penta. spring	ペンタ押えSP	2
2019-5017-03	Penta. pressure	ペンタ押え板	1
2006-5018-01	L.E.D diffusion plate	LED拡散板	1
2006-5039-01	Tape (15mmX9mm)	ペンタ押え板接着テープ	2
2009-5805-02	Fresnel lens	焦点板	1
9622-1630-01	Screw	トガリ先止めねじ	3
9692-1740-02	Phillips type tapping screw	十字穴付なべ頭タッピングねじ	3
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	1

See Page.17,18



Part No.	Part Name		Qty.
2019-0580-11	Magnetic release base plate set	リリースマグネット台板	1
2006-9004-02	Release operation lever A axis	リリース連結レバーA軸	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1628-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9613-1645-07	Phillips type screw	十字穴付半丸皿頭小ねじ	1
9353-2642-01	L.E.D (TLR108)	L.E.D (LD13)	1
9565-3338-32	Condenser (C3; 50V/0.033 μ F CR426YSU)		1



Part No.	Part Name		Qty.
2019-0151-11	Front base plate set	前枠セット	1
2006-0152-01	Circuit base plate-B	回路基板B セット	1
2006-0153-02	Remote control base plate set	リモコン接片基板セット	1
2019-0430-11	Self-timer switch set	セルフSW セット	1
2006-0527-02	Release operation lever set	リリース連結レバーセット	1
2006-1006-03	Lens lock lever	レンズロックレバー	1
2009-1008-01	Mirror box light shield plate	ミラーボックス遮光板	1
2006-1014-02	Lock lever spring	ロックレバーSP	1
2019-2291-01	Synchro terminal	シンクロターミナル	1
2006-4255-01	Tape A (3.8X8)	テープ A	1
2009-5038-01	Penta. front packing	ペンタ前面押えクッション	2
2006-9005-02	Screw	止めねじ	1
2006-9103-03	Lens lock axis	レンズロック軸	1
2006-9107-01	Screw	止めねじ	2
2019-9125-01	Screw	セルフSW止めねじ	2
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-02	Phillips type screw	十字穴付なべ頭小ねじ	1

2009-0532-11

9721-0150-13 (2)

2009-5051-01

9721-0150-13

9792-2050-40

2019-0531-11

2006-5044-04

2019-0524-11

2006-5042-04

9792-2140-40

9793-2140-40

9721-0150-13

2009-5058-81

2009-0542-81

2006-0523-02

9721-0150-13

2009-5073-02

2006-5046-01

2009-5074-02
(2)

2009-9015-03

2006-0522-03

9793-1640-40

2009-0572-11

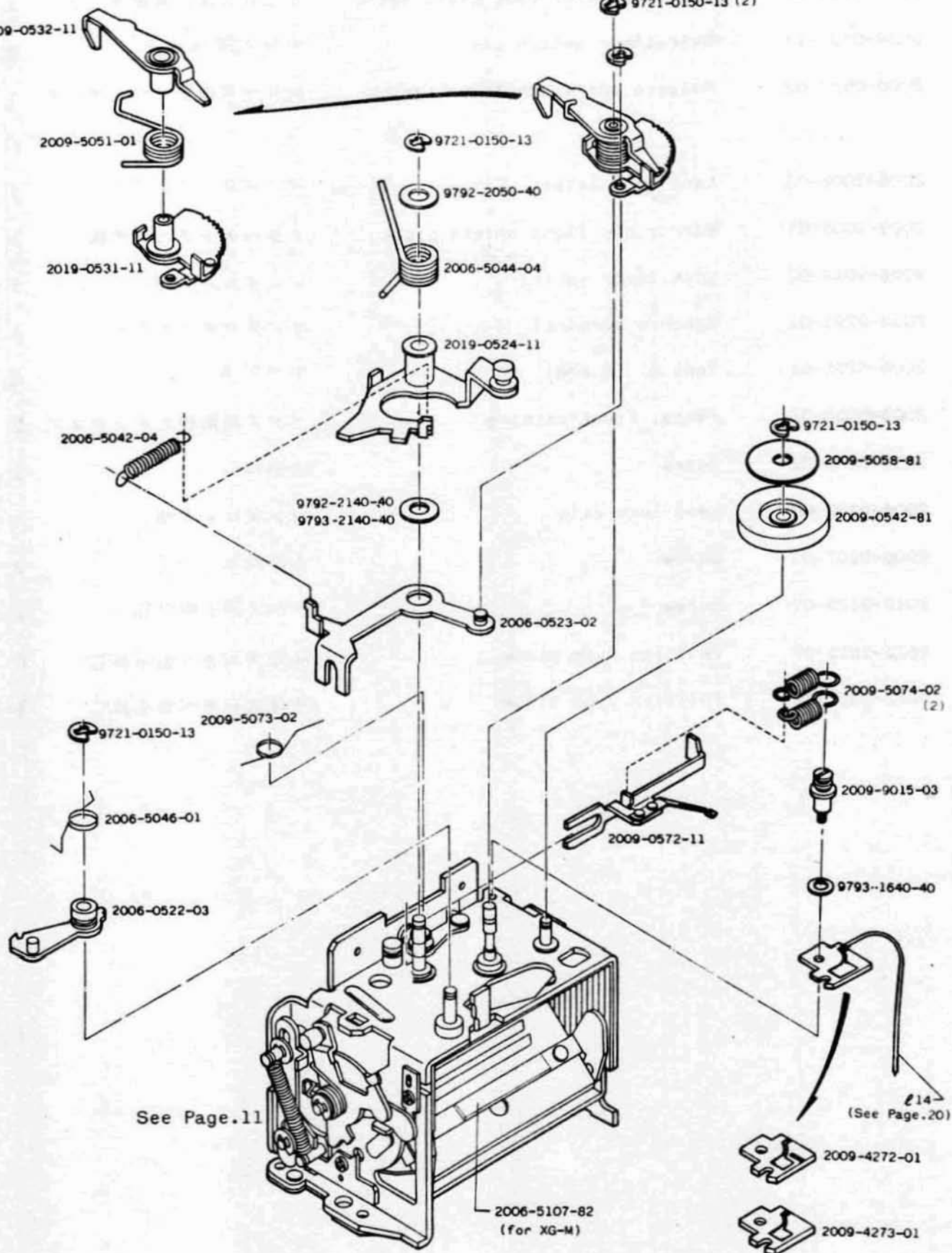
See Page.11

ℓ 14
(See Page.20)

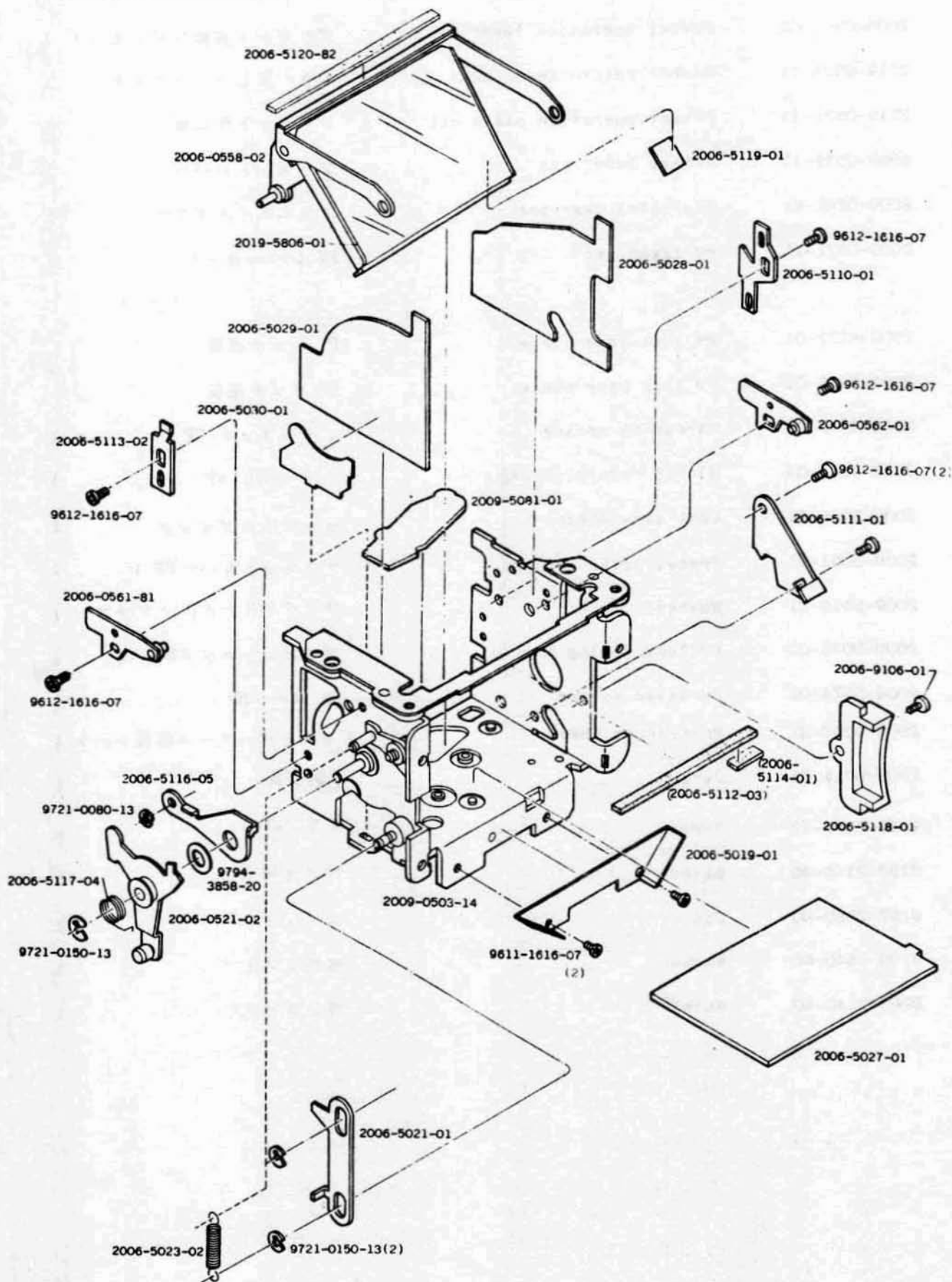
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(for XG-M)

2009-4272-01

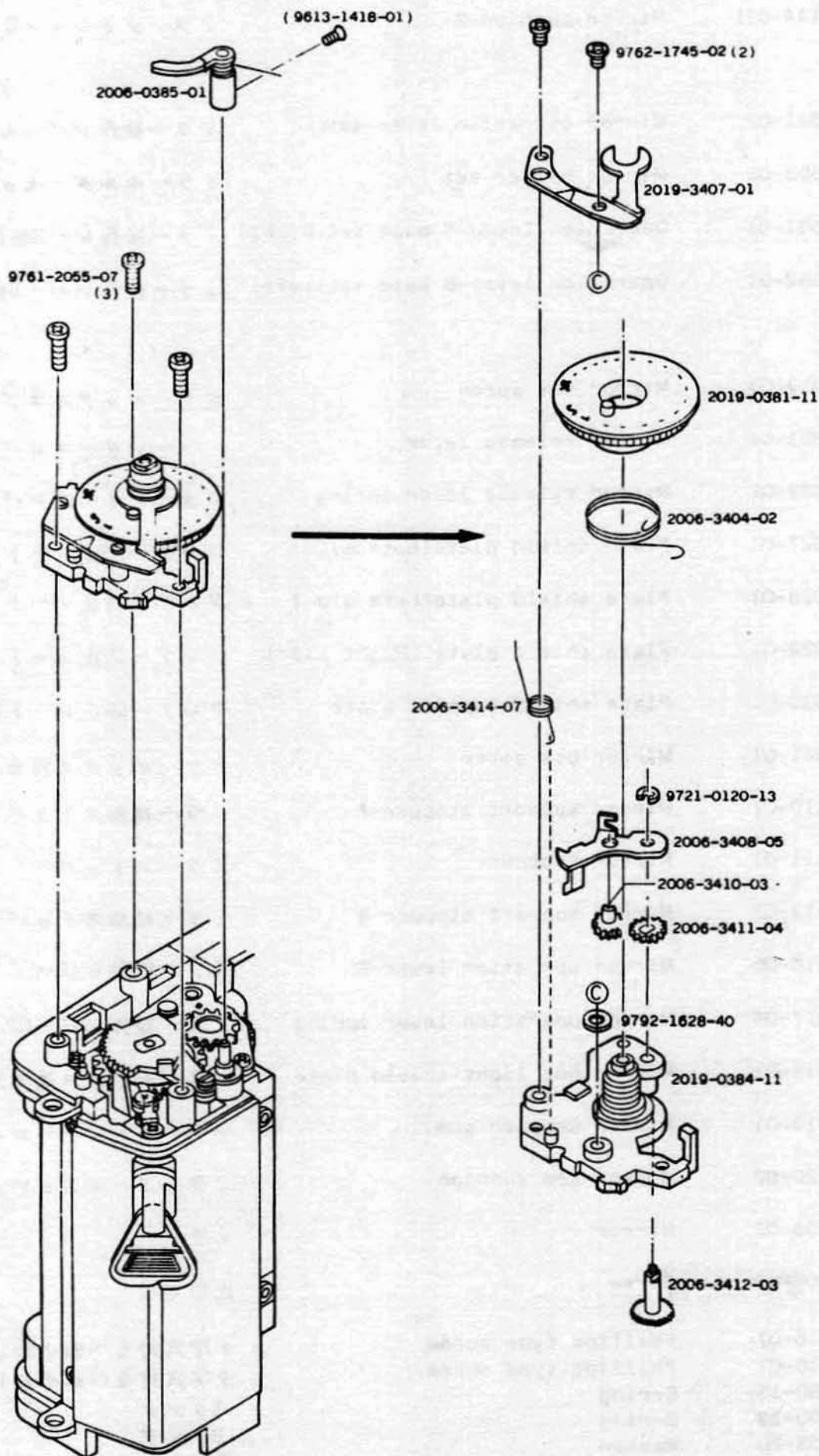
2009-4273-01



Part No.	Part Name	Qty.
2006-0522-03	Mirror return lever lock claw set	ミラー戻しレバーロック爪セット 1
2006-0523-02	Preset operation lever set	プリセット連動レバーセット 1
2019-0524-11	Mirror return lever set	ミラー戻しレバーセット 1
2019-0531-11	Preset operation plate set	プリセット作動板 1
2009-0532-11	Preset lever set	プリセットレバー 1
2009-0542-81	Fly wheel gear set	フライホイールギヤー 1
2009-0572-11	PV lever set	PV レバーセット 1
2009-4272-01	PV lock base plate	PV ロック基板 } 1
2009-4273-01	PV lock base plate	
2006-5042-04	Mirror-up spring	ミラーアップ SP 1
2006-5044-04	Mirror return spring	ミラー戻し SP 1
2006-5046-01	Lock claw spring	ロック爪スプリング 1
2009-5051-01	Preset lever spring	プリセットレバーSP 1
2009-5058-81	Washer	フライホイールワッシャー 1
2009-5073-02	PV lock spring	プレビューロックSP 1
2009-5074-02	PV lever spring	PV レバーSP 2
2006-5107-82	Protection sheet	ミラーホルダーアーム保護シート 1
2009-9015-03	Screw	止めビス 1
9721-0150-13	E-ring	E リング 5
9792-2140-40	Washer	薄ワッシャー 1
9792-2050-40	Washer	薄ワッシャー 1
9793-1640-40	Washer	薄ワッシャー 1
9793-2140-40	Washer	薄ワッシャー 1



Part No.	Part Name		Qty.
2009-0503-14	Mirror box set	ミラーボックスセット	1
(2006-5112-03)	Mirror cushion	ミラークッション	1
(2006-5114-01)	Mirror cushion-B	ミラークッションB	1
2006-0521-02	Mirror operation lever-set	ミラー操作レバーセット	1
2006-0558-02	Mirror holder set	ミラーホルダーセット	1
2006-0561-81	Operation lever-B base set(Right)	ミラー操作レバB軸台セット (右)	1
2006-0562-01	Operation lever-B base set(Left)	ミラー操作レバーB軸台セット (左)	1
2006-5019-01	Mirror box apron	ミラーボックスエプロン	1
2006-5021-01	Mirror release lever	ミラーリリースレバー	1
2006-5023-02	Mirror release lever spring	ミラーリリースレバーSP	1
2006-5027-01	Flare shield plate(bottom)	フレア防止シート (下)	1
2006-5028-01	Flare shield plate(Left side)	フレア防止シート (左)	1
2006-5029-01	Flare shield plate (Right side)	フレア防止シート (右)	1
2006-5030-01	Flare shield support plate	フレア防止シート補助板	1
2009-5081-01	Mirror box cover	ミラーボックス穴カバー	1
2006-5110-01	Mirror support stopper-A	ミラー補助ストッパーA	1
2006-5111-01	Mirror stopper	ミラーストッパー	1
2006-5113-02	Mirror support stopper-B	ミラー補助ストッパーB	1
2006-5116-05	Mirror operation lever-B	ミラー作動レバー	1
2006-5117-04	Mirror operation lever spring	ミラー操作レバーSP	1
2006-5118-01	Mirror box light shield plate	ミラーボックス遮光片	1
2006-5119-01	Mirror stopper gum	ミラーストッパーゴム	1
2006-5120-82	Mirror arm cushion	ミラーアームクッション	1
2019-5806-01	Mirror	ミラー	1
2006-9106-01	Screw	止めビス	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	6
9721-0080-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	3
9794-3858-20	Washer	薄ワッシャー	1



Part No.	Part Name		Qty.
2019-0381-11	Counter dial set	カウンタダイヤルセット	1
2019-0384-11	Winding base plate-B set	巻取台板Bセット	1
2006-0385-01	Film indication lever set	フィルム表示レバーセット	1
(9613-1418-01)	Phillips type screw	十字穴付半丸皿頭小ねじ	1
2006-3404-02	Counter return spring	カウンタ戻しSP	1
2019-3407-01	Counter index	カウンタ指標	1
2006-3408-05	Counter operation lever set	カウンタ駆動操作レバー	1
2006-3410-03	Counter operation gear-B set	カウンタ駆動ギヤー	1
2006-3411-04	Counter operation gear-C set	カウンタ伝達ギヤー	1
2006-3412-03	Counter operation gear-A set	カウンタ連結ギヤー	1
2006-3414-07	Return lever spring	ゼロリターンSP	1
9761-2055-07	Tap tite screw	十字穴付なべ頭タップタイトねじ3	
9762-1745-02	Tap tite screw	十字穴付なべ頭小ねじ	2
9721-0120-13	E-ring	E リング	1
9792-1628-40	Washer	薄ワッシャー	1

■ Use each part in combination
(2006-0325-12 and 2006-3042-01,
2006-0325-13 and 2006-3042-03).

■ それぞれペアで使用して下さい。

2006-3042-01

2006-0325-12



(for XG-M)

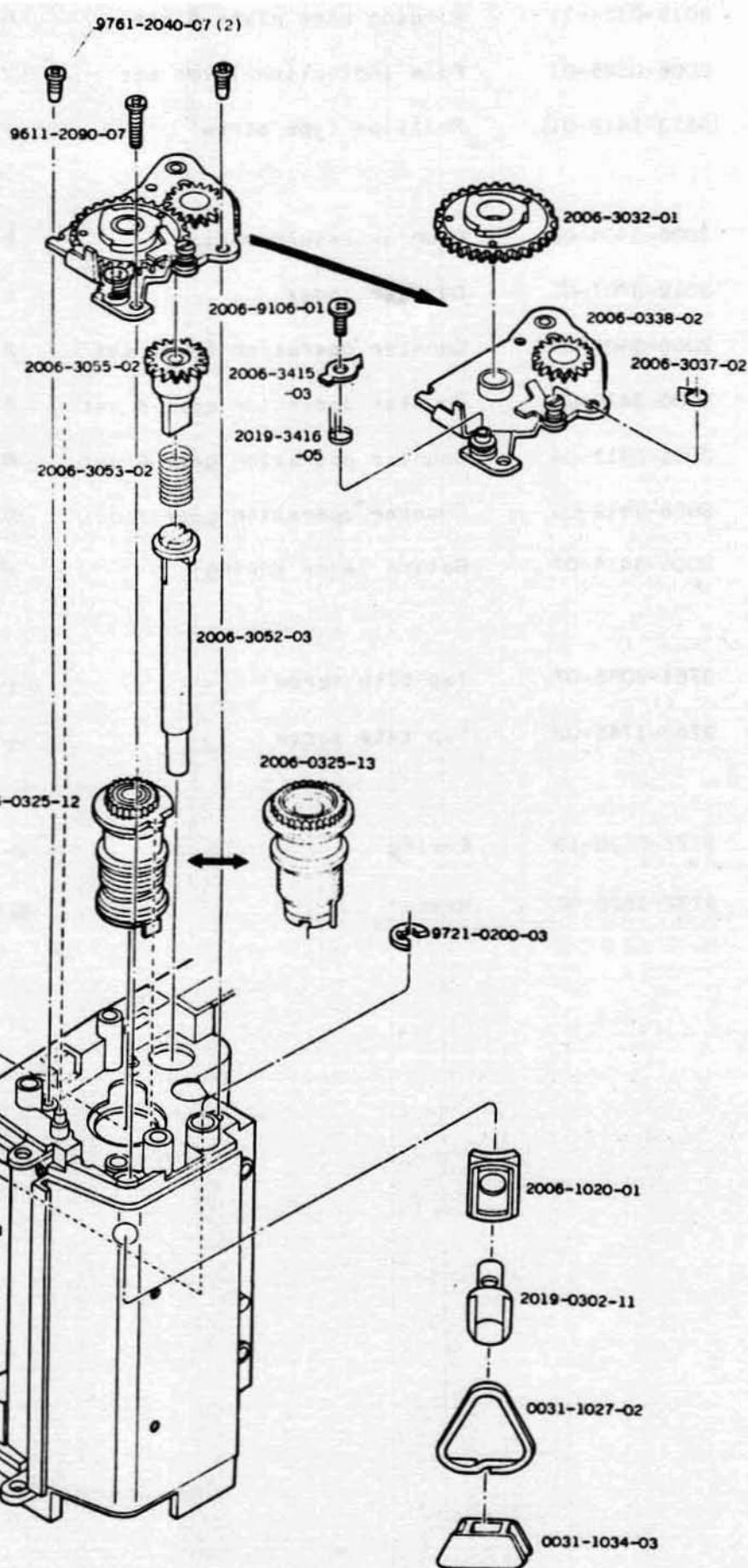


2006-3042-03

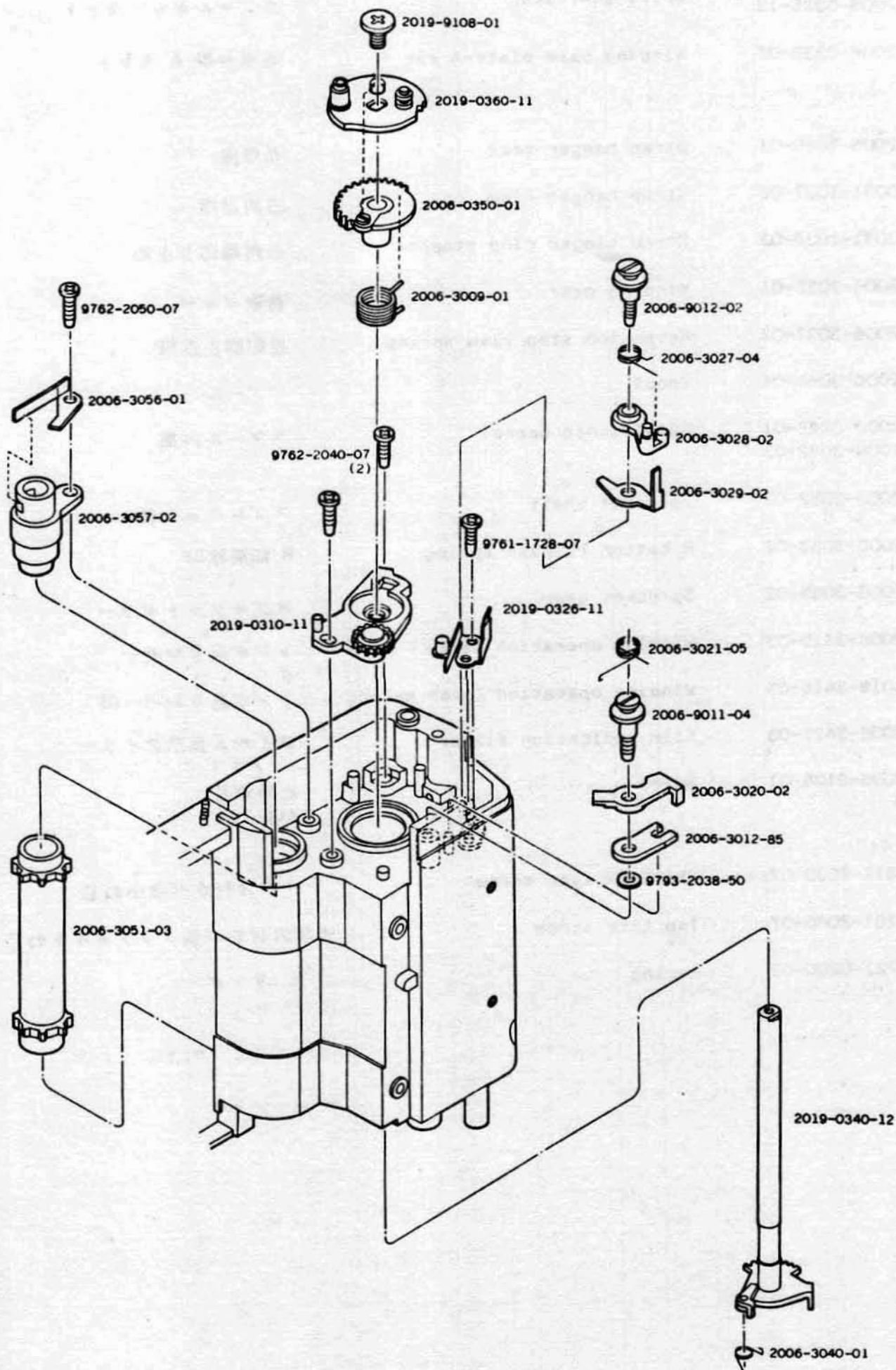
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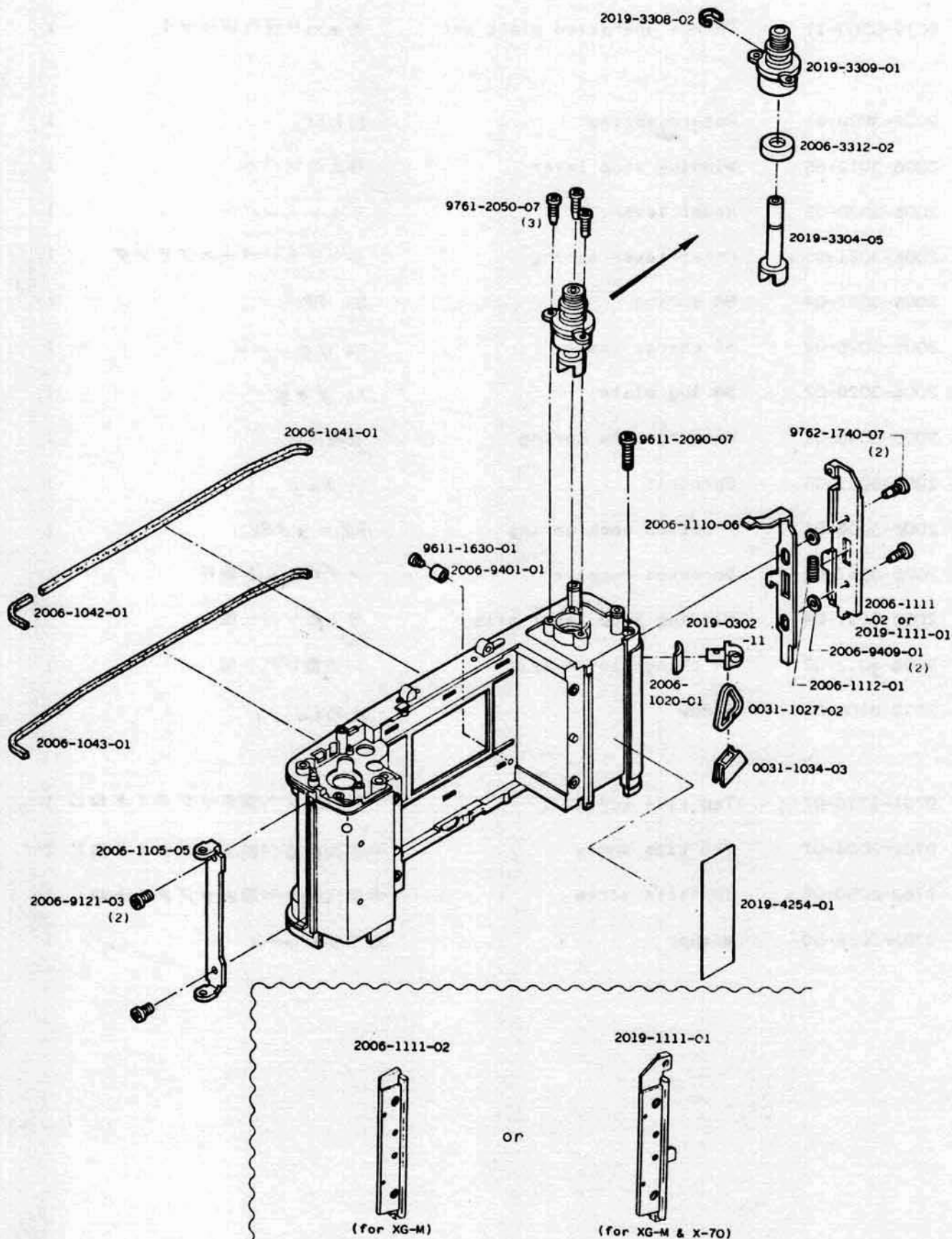
(for XG-M & X-70)



Part No.	Part Name		Qty
2019-0302-11	Strap hanger set	吊環セット	1
2006-0325-12 2006-0325-13	or Spool gear set	スプールギヤーセット	1
2006-0338-02	Winding base plate-A set	巻取台板 A セット	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Strap hanger ring	三角吊環	1
0031-1034-03	Strap hanger ring stopper	三角環回り止め	1
2006-3032-01	Winding gear	巻取ギヤー	1
2006-3037-02	Reversion stop claw spring	逆転防止爪SP	1
2006-3041-04	Spool	スプール	1
2006-3042-01 2006-3042-03	or Spool inner barrel	スプール内筒	1
2006-3052-03	Sprocket shaft	スプロケット軸	1
2006-3053-02	R button release spring	R 釦解除SP	1
2006-3055-02	Sprocket gear	スプロケットギヤー	1
2006-3415-03	Winding operation lever	トンボ返しレバー	1
2019-3416-05	Winding operation lever spring	トンボ返しレバーSP	1
2006-3421-03	Film indication filler	フィルム表示ファイラー	1
2006-9106-01	Screw	止めねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2040-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9721-0200-03	E-ring	E リング	1



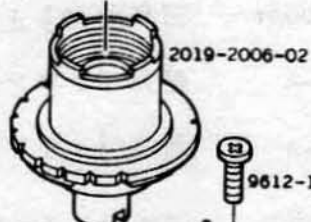
Part No.	Part Name		Qty
2019-0310-11	Winding axis receiver set	巻取軸受セット	1
2019-0326-11	S4 contact set	S4 接片セット	1
2019-0340-12	Winding operation plate set	巻取操作板セット	1
2006-0350-01	Shutter charge gear-D set	シャッターチャージギヤーセット	1
2019-0360-11	Charge operation plate set	チャージ操作板セット	1
2006-3009-01	Return spring	戻しSP	1
2006-3012-85	Winding stop lever	巻止めレバー	1
2006-3020-02	Reset lever	リセットレバー	1
2006-3021-05	Reset lever spring	リセットレバースプリング	1
2006-3027-04	S4 spring	S4 SP	1
2006-3028-02	S4 charge lever	S4 切換レバー	1
2006-3029-02	S4 lug plate	S4 ラグ板	1
2006-3040-01	Winding calw spring	巻取爪SP	1
2006-3051-03	Sprocket	スプロケット	1
2006-3056-01	R button lock spring	R釦ロックSP	1
2006-3057-02	Sprocket receiver	スプロケット軸受	1
2006-9011-04	Winding stop lever axis	巻止めレバー軸	1
2006-9012-02	S4 change lever axis	S4切換レバー軸	1
2019-9108-01	Screw	止めねじ	1
9761-1728-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-2004-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9762-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-2038-50	Washer	薄ワッシャー	1



- 2019-1111-01 Should be used on the top cover with a screw-hole.
- 上カバーにビス穴が付いている物には2019-1111-01を使用して下さい。

Part No.	Part Name		Qty.
2019-0302-11	Strap hanger set	吊環セット	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Strap hanger ring	三角吊環	1
0031-1034-03	Strap hanger ring stopper	三角環回り止め	1
2006-1041-01	Light shield packing-A	遮光パッキンA	1
2006-1042-01	Light shield packing-B	遮光パッキンB	1
2006-1043-01	Light shield packing-C	遮光パッキンC	1
2006-1105-05	Hinge	ヒンジ	1
2006-1110-06	Back cover lock lever	裏蓋ロックレバー	1
2006-1111-02 2019-1111-01 or	Lock cover	ロックカバー	1
2006-1112-01	Back ocver lock spring	裏蓋ロックSP	1
2019-3304-05	Rewinding fork	巻戻しフオーク	1
2019-3308-02	Rewinding friction spring	巻戻しフリクションSP	1
2019-3309-01	Rewinding axis receiver	巻戻し軸受	1
2006-3312-02	Light shield collar	巻戻し遮光カラー	1
2019-4254-01	Tape(12X45)	リード線接着テープ	1
2006-9121-03	Screw	止めねじ	2
2006-9401-01	Film guide collar	フィルムガイドカラー	1
2006-9409-01	Lock guide	裏蓋ロックガイド	2
9611-1630-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9761-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2

2019-2008-01



2019-2006-02

9612-1675-07

2019-2015-02

2019-4213-07

See Page.19

2019-0293-11

2019-0271-13

2019-0279-11

2019-4258-81

2019-0292-11

2019-0270-11

2019-0294-11

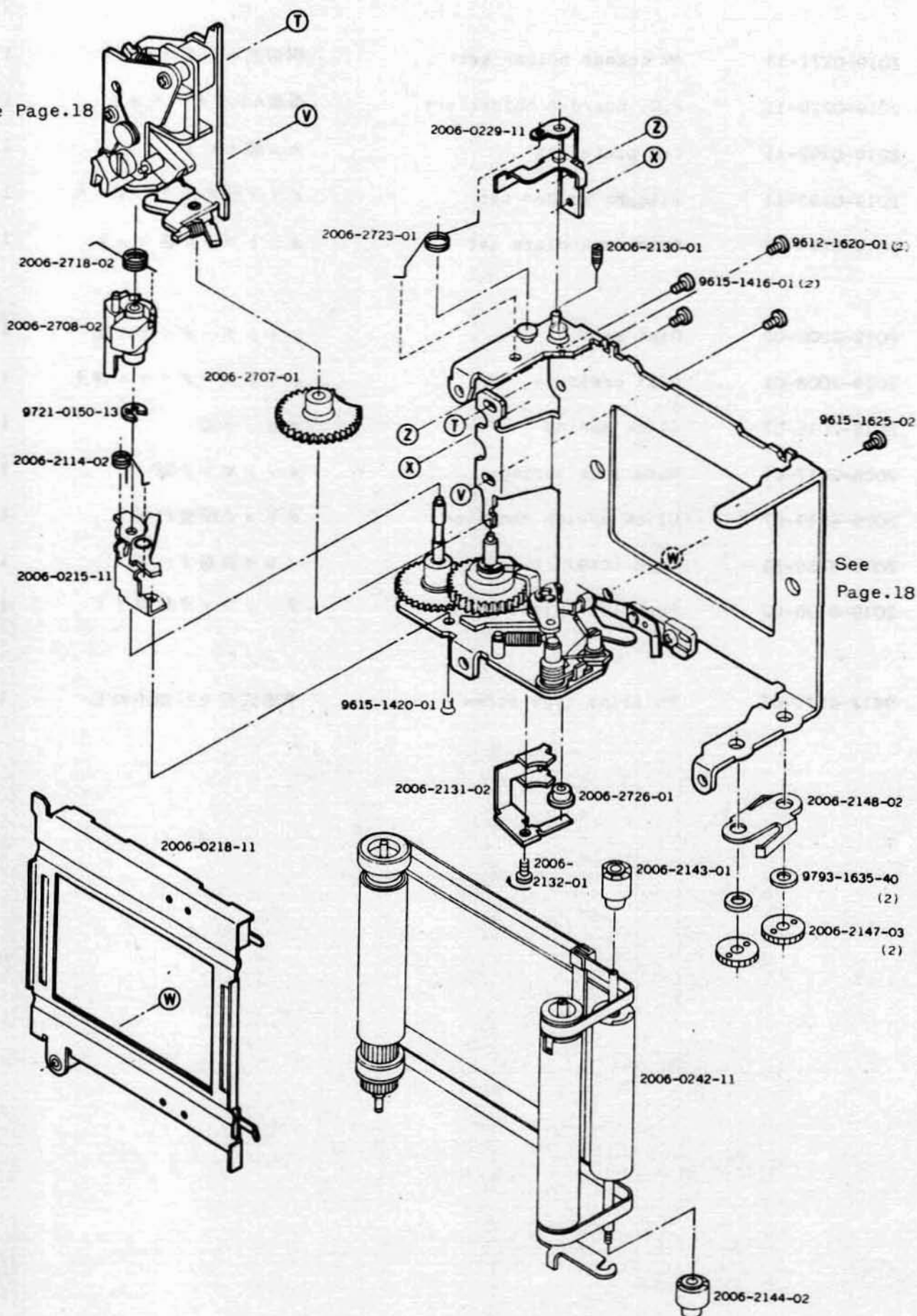
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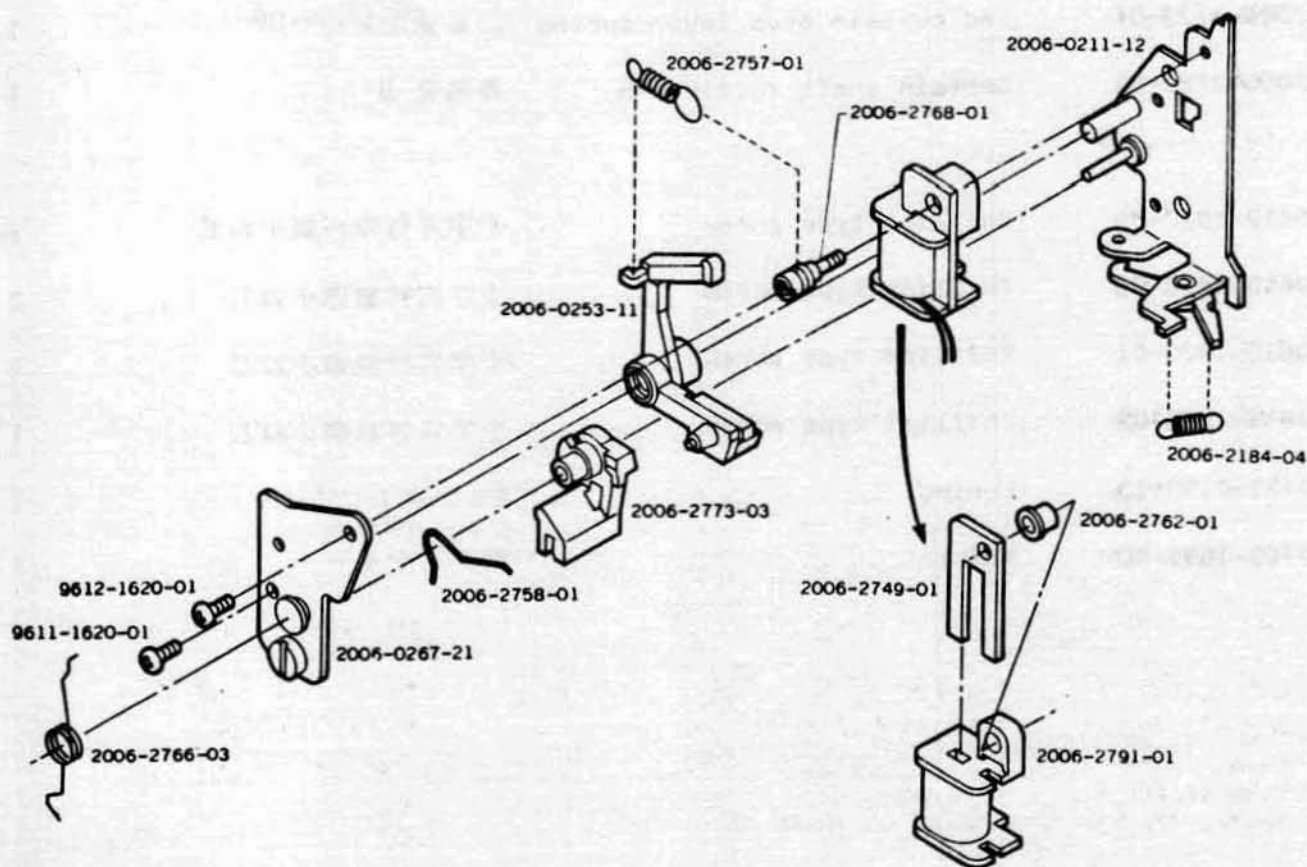
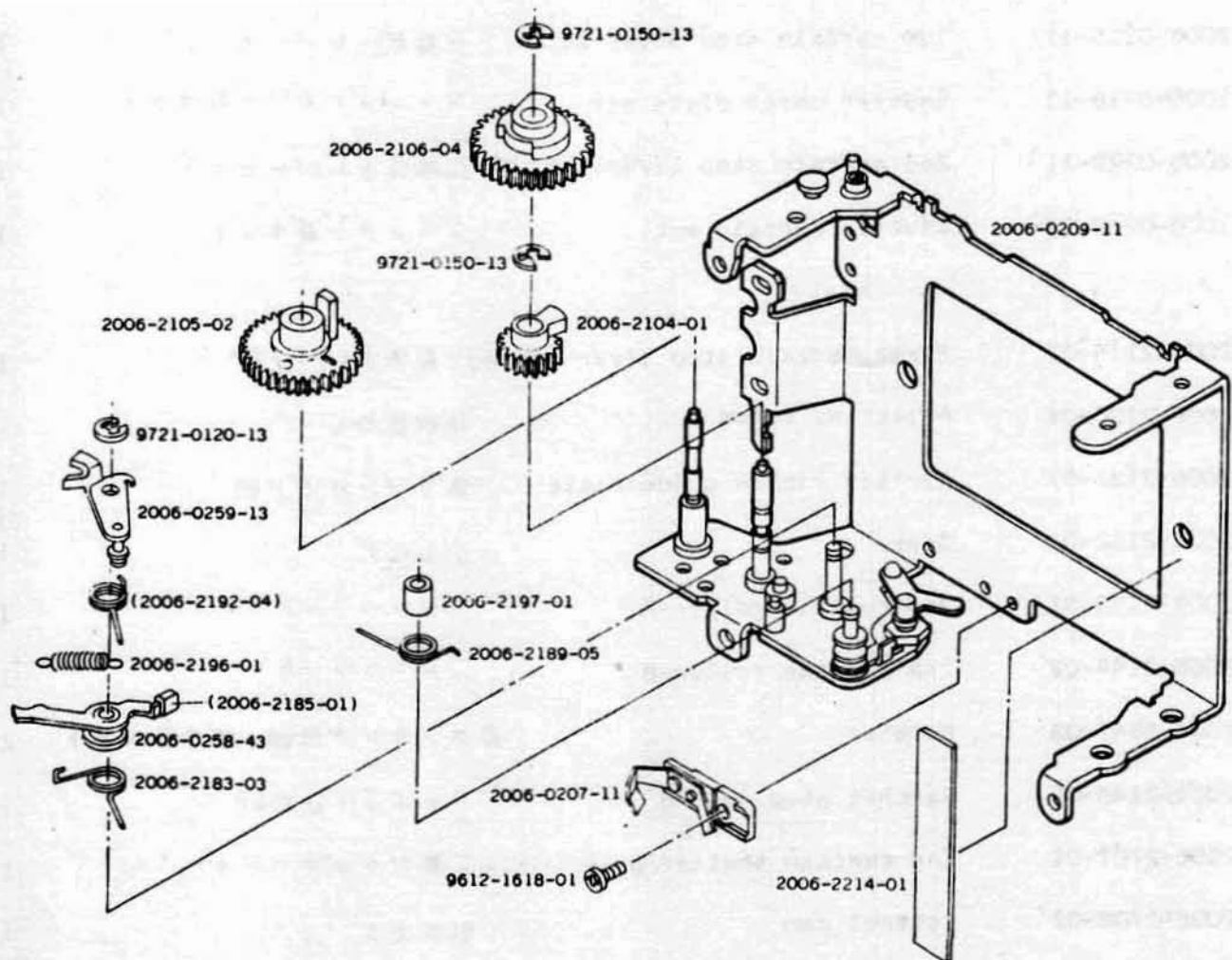
(2006-2012-04)

Part No.	Part Name		Qty.
2019-0270-11	Shutter speed dial base plate set	シャッターダイヤル台板セット	1
(2006-2012-04)	AM change spring	AM切換SP	1
2019-0271-13	AM change holder set	AM切換ホルダーセット	1
2019-0279-11	P.C. board-A holder set	基板Aホルダーセット	1
2019-0292-11	Cam plate set	カム板セット	1
2019-0293-11	Main SW holder set	メインSWホルダーセット	1
2019-0294-11	Auto lock plate set	オートロック板セット	1
2019-2006-02	Dial axis	シャッターダイヤル軸	1
2019-2008-01	Dial pressure	シャッターダイヤル押え	1
2019-2015-02	Click spring	クリックSP	1
2006-2017-01	Auto lock spring	オートロックSP	1
2019-4213-07	Click spring receiver	クリックSP受け板	1
2019-4258-81	Tape (6X9)	フレキ接着テープ	1
2019-9105-02	Auto lock plate guide	オートロック板ガイド	1
9612-1675-07	Phillips type screw	十字穴付なべ頭小ねじ	1

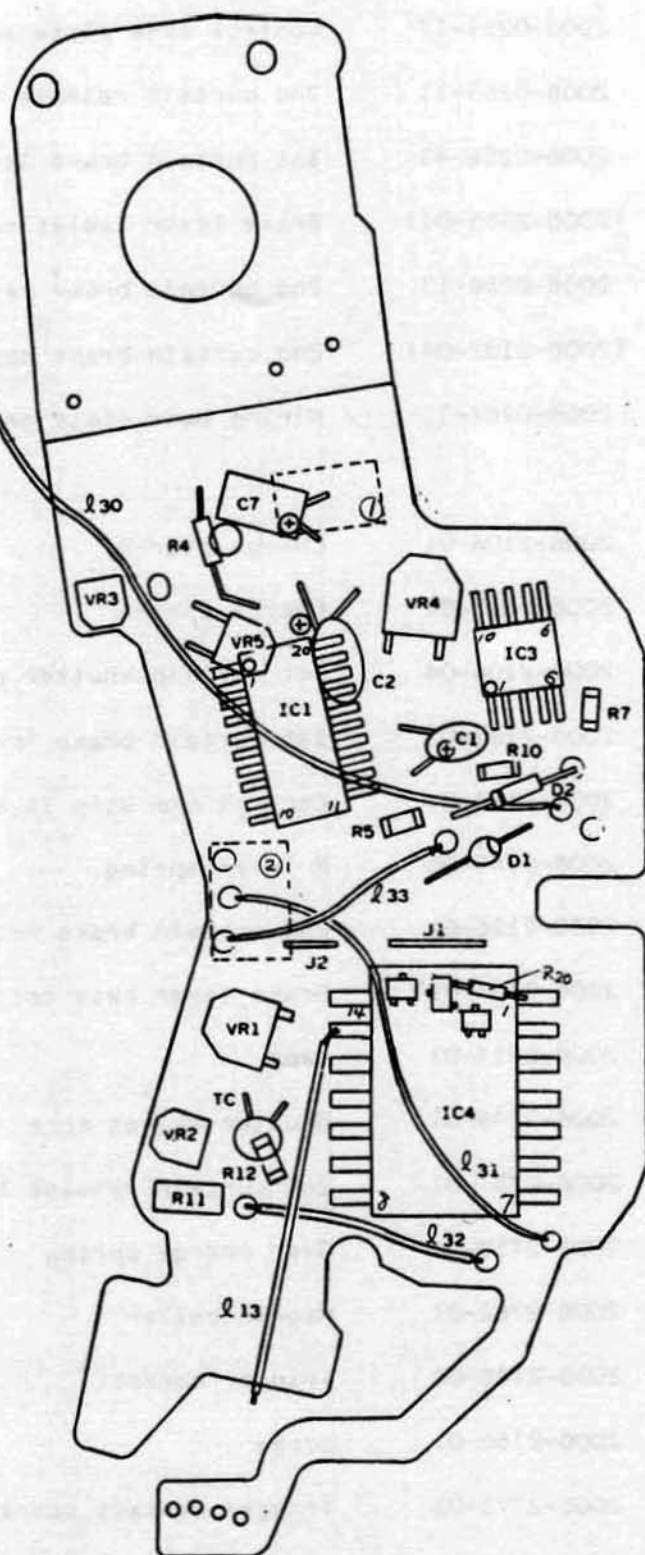
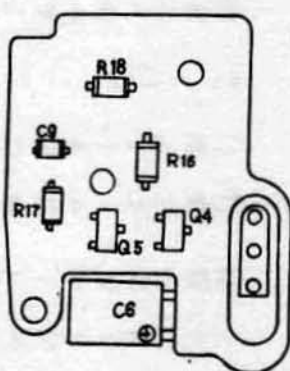
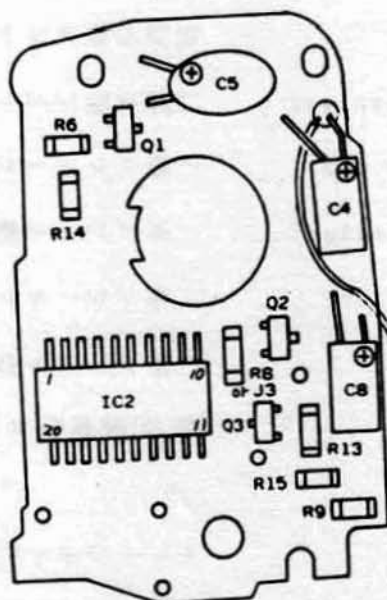
See Page.18



Part No.	Part Name		Qty.
2006-0222-11	Shutter block	シャッターブロック	1
2006-0215-11	1st curtain stop lever set	一幕係止レバーセット	1
2006-0218-11	Shutter cover plate set	シャッターカバー板セット	1
2006-0229-11	2nd curtain stop lever set	二幕係止レバーセット	1
2006-0242-11	Shutter curtain set	シャッター幕セット	1
2006-2114-02	First curtain stop lever spring	一幕係止レバーSP	1
2006-2130-01	Adjusting screw	幕調整ねじ	1
2006-2131-02	Curtain ribbon guide plate	幕リボンガイド板	1
2006-2132-01	Screw	止めねじ	1
2006-2143-01	2nd curtain roller-A	二幕ローラーA	1
2006-2144-02	2nd curtain roller-B	二幕ローラーB	1
2006-2147-03	Ratchet	幕スプリング筒軸止めラチェット	2
2006-2148-02	Ratchet stop spring	ラチェット止めSP	1
2006-2707-01	2nd curtain shutter gear	二幕シャッターギヤー	1
2006-2708-02	Control cam	制御カム	1
2006-2718-02	Control cam operation spring	制御カム駆動SP	1
2006-2723-01	2nd curtain stop lever spring	二幕係止レバーSP	1
2006-2726-01	Curtain shaft receiver-B	幕軸受 B	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	2
9615-1416-01	Phillips type screw	十字穴付皿頭小ねじ	2
9615-1420-01	Phillips type screw	十字穴付皿頭小ねじ	1
9615-1625-02	Phillips type screw	十字穴付皿頭小ねじ	1
9721-0150-13	E-ring	Eリング	1
9793-1635-40	Washer	薄ワッシャー	2



Part No.	Part Name		Qty.
2006-0207-11	X contact plate set	X接片セット	1
2006-0209-11	Shutter base plate set	シャッター台板セット	1
2006-0211-12	Control base plate set	制御台板セット	1
2006-0253-11	2nd curtain release lever set	二幕解除レバーセット	1
2006-0258-43	1st curtain brake lever set	一幕ブレーキレバーセット	1
(2006-2185-01)	Brake lever isolation collar	一幕ブレーキ絶縁カラー	1
2006-0259-13	2nd curtain brake lever set	二幕ブレーキレバーセット	1
(2006-2192-04)	2nd curtain brake spring	二幕ブレーキSP	1
2006-0267-21	Wiring base plate set	Mg 配線基板セット	1
2006-2104-01	Charge gear-B	チャージギヤーB	1
2006-2105-02	Charge gear-A	チャージギヤーA	1
2006-2106-04	1st curtain shutter gear	一幕シャッターギヤー	1
2006-2183-03	1st curtain brake spring-B	一幕ブレーキSP B	1
2006-2184-04	Control cam stop lever spring	制御カム係止レバーSP	1
2006-2189-05	X lever spring	XレバーSP	1
2006-2196-01	2nd curtain brake return spring	二幕ブレーキ戻しSP	1
2006-2197-01	Brake lever axis collar	二幕ブレーキ消音カラー	1
2006-2214-01	Tape	幕縁金保護テープ	1
2006-2749-01	Shutter magnet core	シャッターマグネット鉄芯	1
2006-2757-01	2nd curtain release lever spring	二幕解除レバーSP	1
2006-2758-01	Over charge spring	吸着片オーバーチャージSP	1
2006-2762-01	Magnet collar	マグネット取付カラー	1
2006-2766-03	Trigger contact	トリガー接片	1
2006-2768-01	Screw	止めねじ	1
2006-2773-03	Trigger contact operation lever	トリガー接片作動レバー	1
2006-2791-01	Shutter magnet bobbin	シャッターマグネットボビン	1
9611-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1618-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9721-0120-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	2



R4	9422-2036-32	1/8W, 20K Ω	1
	9422-2236-32	1/8W, 22K Ω	
	9422-2436-32	1/8W, 24K Ω	
	9422-2736-32	1/8W, 27K Ω	
	9422-3036-32	1/8W, 30K Ω	
	9422-3336-32	1/8W, 33K Ω	
	9422-3936-32	1/8W, 39K Ω	
	9422-4736-32	1/8W, 47K Ω	
	9422-5636-32	1/8W, 56K Ω	
	9422-6836-32	1/8W, 68K Ω	
	9422-1046-32	1/8W, 100K Ω	
	9422-2046-32	1/8W, 200K Ω	

9372-2062-01(TC) Should employ 9422-3926-62 as the R12.

9372-2862-03(TC) should employ 9422-4726-62 as the R12.

TC 9372-2062-01に對してR12は9422-3926-62を使用して下さい又、

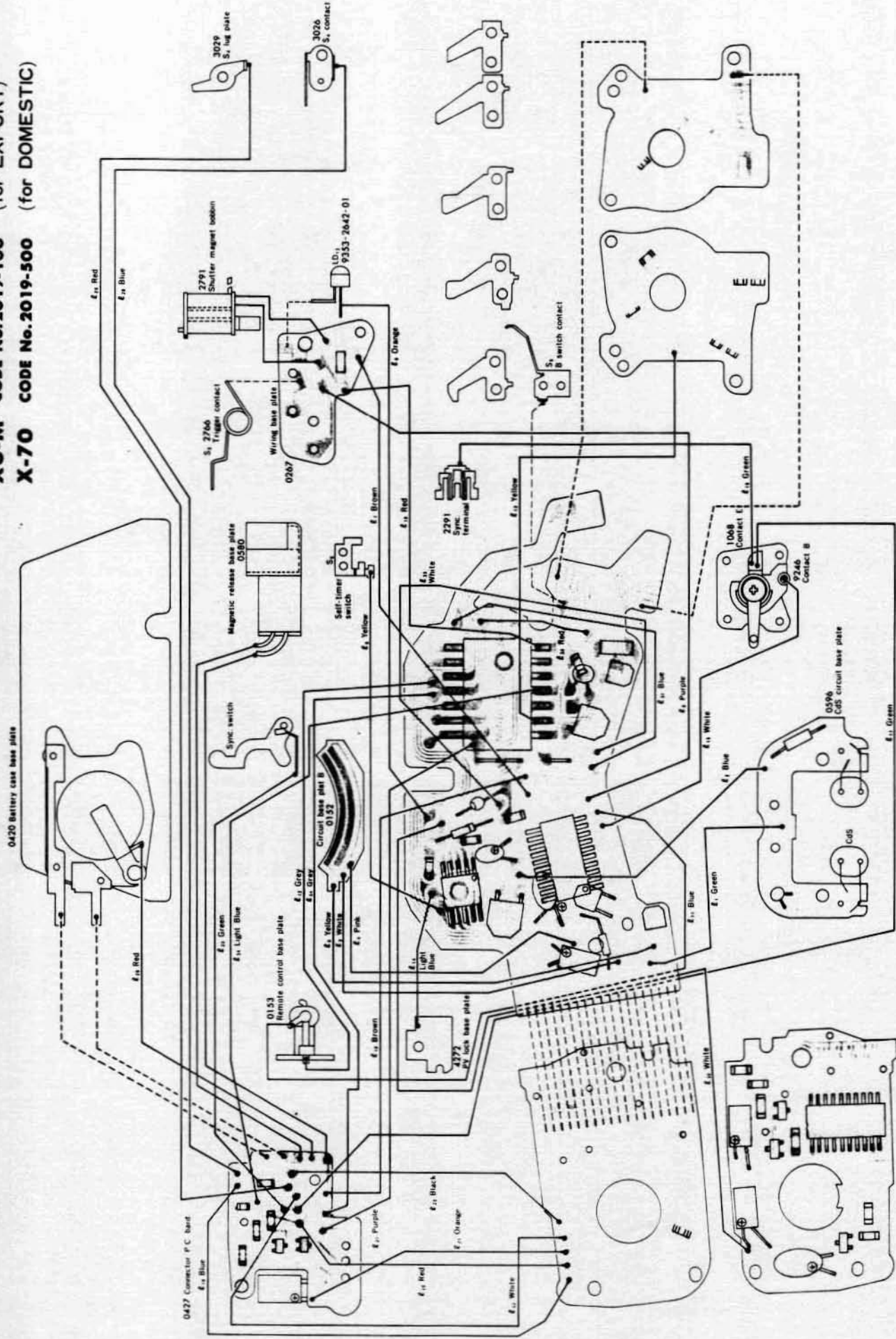
TC 9372-2862-03に對してR12は9422-4726-62を使用して下さい。

Assy. Part No. 2019-0402-01 Assy. Part Name Flexible P.C. board set
フレキシブル基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty.
IC1	2006-4301-03		I C	M51865	1
- IC2	2006-4302-03			M51866	1
IC3	2006-4303-03			M51867	1
IC4	2019-4304-01			HIC	1
D1	9361-1631-01		Diode	MB162	1
D2	9361-5631-11			IS953	1
Q3 Q2 Q1	9363-1632-02	03,04	Transistor	2SA812	3
TC	9372-2062-01	or	Thermistor	112202-02	1
	9372-2862-03			112502-02	
R5	9422-1046-62		Fixed resistor	1/8W, 100K Ω	1
R6	9422-3046-62			1/8W, 300K Ω	1
R7	9422-6806-62			1/8W, 68 Ω	1
R8	9422-3916-62			1/8W, 390 Ω	1
	9422-8216-62			1/8W, 820 Ω	
	9422-1826-62			1/8W, 1.8K Ω	
	9422-3326-62			1/8W, 3.3K Ω	
J3	2019-8443-01		Jump lead wire	$\phi 0.4 \ell=4$	
R9	9422-3016-62		Fixed resistor	1/8W, 300 Ω	1
R15 R10	9422-2416-62			1/8W, 240 Ω	2
R11	9423-2426-63			1/4W, 2.4K Ω	1
R12	9422-3926-62	or		1/8W, 3.9K Ω	1
	9422-4726-62			1/8W, 4.7K Ω	
R13	9422-3036-62			1/8W, 30K Ω	1
R14	9422-1036-62			1/8W, 10K Ω	1
R20	9422-2036-32			1/8W, 20K Ω	0-1
VR5 VR1	9472-2039-38		Variable resistor	VGO62K 20K Ω	2
VR3 VR2	9472-1539-63			EVM-14G 15K Ω	2
VR4	9472-1529-38			VGO62K 1.5K Ω	1
C1	9535-1555-36		Condenser	35V/1.5 μ F TYPE202	1
C2	9535-6845-31			35V/0.68 μ F CSI5E	1
C4	9511-2265-65			6.3V/22 μ F ECEAOJK	1
C5	9531-4765-31			3.15V/100 μ F CSI5E	1
C7	9515-2255-61			50V/2.2 μ F ECEAIHK	1
C8	9511-3365-61			6.3V/33 μ F ECEAOJK	1
ℓ 13	2006-8401-01		Lead wire	Yellow $\phi 0.08/7$ wires $\ell=30$	1
ℓ 30	2006-8409-01			White $\phi 0.08/7$ wires $\ell=85$	1
ℓ 31	2006-8403-01			Blue $\phi 0.08/7$ wires $\ell=45$	1
ℓ 32	2006-8411-01			Red $\phi 0.08/7$ wires $\ell=20$	1
ℓ 33	2006-8409-01			White $\phi 0.08/7$ wires $\ell=25$	1
J1	2019-8441-01			$\phi 0.4 \ell=8$	1
J2	2019-8442-01		Jump lead wire	$\phi 0.4 \ell=5$	1
② ①	2019-4258-31		Isolation tape	6X9	2

Assy. Part No. 2019-0427-01 Assy. Part Name Connector P.C. board set
中継基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty.
Q4 Q5	9362-1633-02	03,04	Transistor	2SC1623	2
R16	9432-2258-62		Fixed resistor	1/8W, 2.2M Ω	1
R17	9432-1558-62			1/8W 1.5M Ω	1
R18	9432-3958-62			1/8W, 3.9M Ω	1
C6	9511-1075-61		Condenser	6.3V/100 μ F ECEAOJK	1
C9	9564-6824-61			25V/6800PF CM21WR	1
③	2019-1066-02		Motor drive connect Holder モータードラ イブ接点ホルダー		1



Lead wires list

Symbol				Part No.	Color	Type.	Qty.
			l1	2006-8417-01	Green	60.08/7wires l=35	1
			l2	2006-8403-01	Blue	60.08/7wires l=55	1
	l30	l15	l3	2006-8409-01	White	60.08/7wires l=85	3
			l4	2006-8408-01	Pink	60.08/7wires l=85	1
			l5	2006-8401-01	Yellow	60.08/7wires l=75	1
			l6	2006-8401-01	Yellow	60.08/7wires l=110	1
			l7	2006-8402-01	Brown	60.08/7wires l=90	1
			l8	2006-8413-01	Purple	60.08/7wires l=90	1
			l9	2006-8404-01	Orange	60.08/7wires l=110	1
			l10	2006-8411-01	Red	60.08/7wires l=100	1
		l19	l11	2006-8403-01	Blue	60.08/7wires l=100	2
			l12	2006-8406-01	Grey	60.08/7wires l=130	1
			l13	2006-8401-01	Yellow	60.08/7wires l=30	1
			l14	2009-8427-01	Light Blue	60.08/7wires l=145	1
			l16	2006-8417-01	Green	60.08/7wires l=200	1
			l17	2006-8417-01	Green	60.08/7wires l=215	1
			l18	2006-8402-01	Brown	60.08/7wires l=140	1
			l20	2006-8411-01	Red	60.08/7wires l=90	1
			l21	2006-8404-01	Orange	60.08/7wires l=85	1
			l22	2006-8409-01	White	60.08/7wires l=95	1
			l23	2006-8414-01	Black	60.08/7wires l=90	1
			l24	2006-8406-01	Grey	60.08/7wires l=170	1
			l25	2006-8417-01	Green	60.08/7wires l=55	1
			l26	2006-8411-01	Red	60.08/7wires l=25	1
			l27	2006-8413-01	Purple	60.08/7wires l=160	1
			l28	2006-8403-01	Blue	60.08/7wires l=140	1
			l29	2006-8411-01	Red	60.08/7wires l=140	1
			l31	2006-8403-01	Blue	60.08/7wires l=45	1
			l32	2006-8411-01	Red	60.08/7wires l=20	1
			l33	2006-8409-01	White	60.08/7wires l=25	1
			l34	2009-8427-01	Light Blue	60.08/7wires l=170	1

REPAIR GUIDE

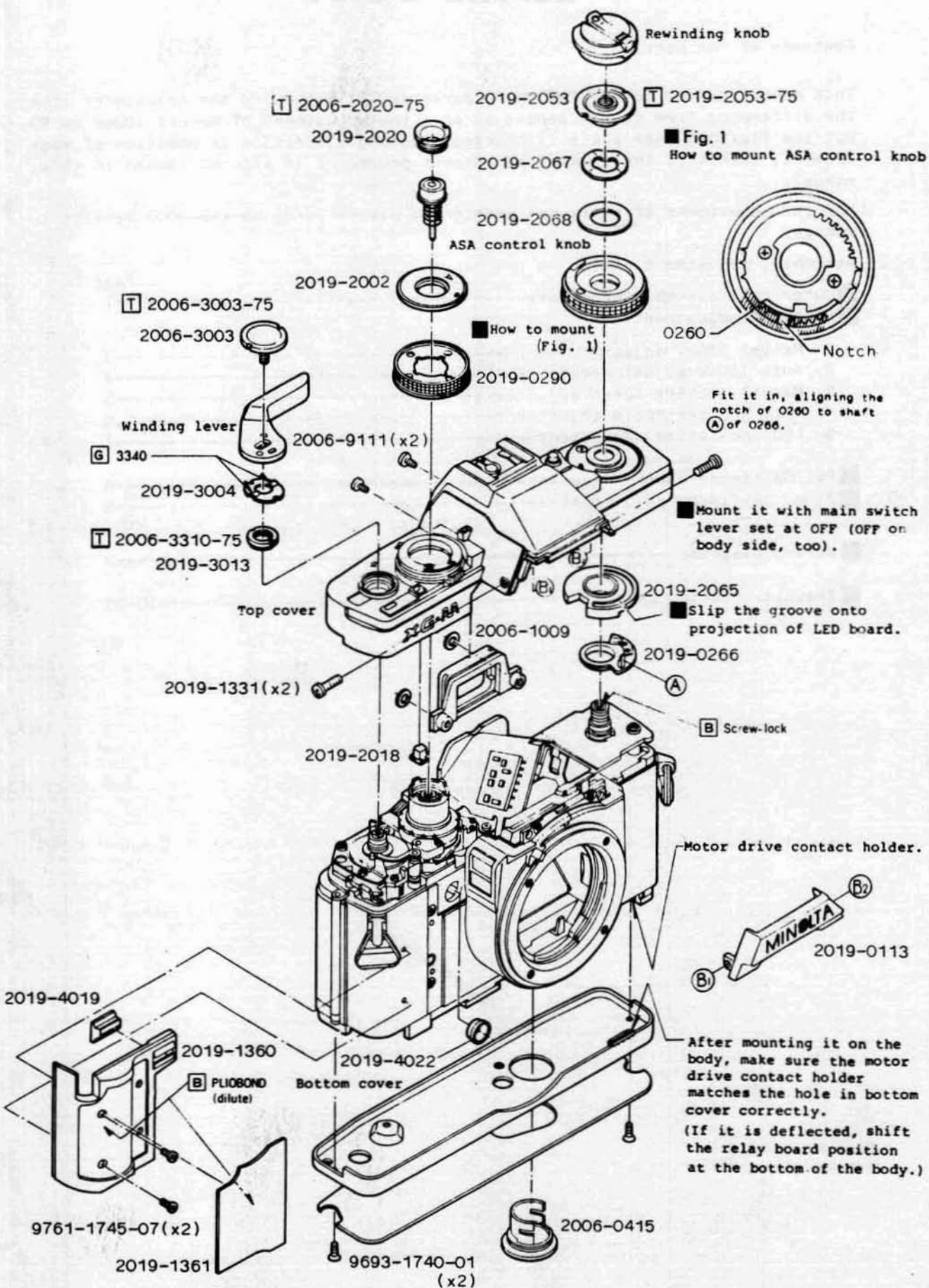
1. Contents of the manual

This manual refers to the following paragraph 2. Regarding the adjustment item, the difference from the XG series is only the adjustment of Manual 180mV on P3. But the flexible base plate is changed, causing alteration in position of each element, therefore, the related adjustment procedure is also mentioned in this manual.

For the adjustment of parts not mentioned, please refer to the 2006 Service Manual.

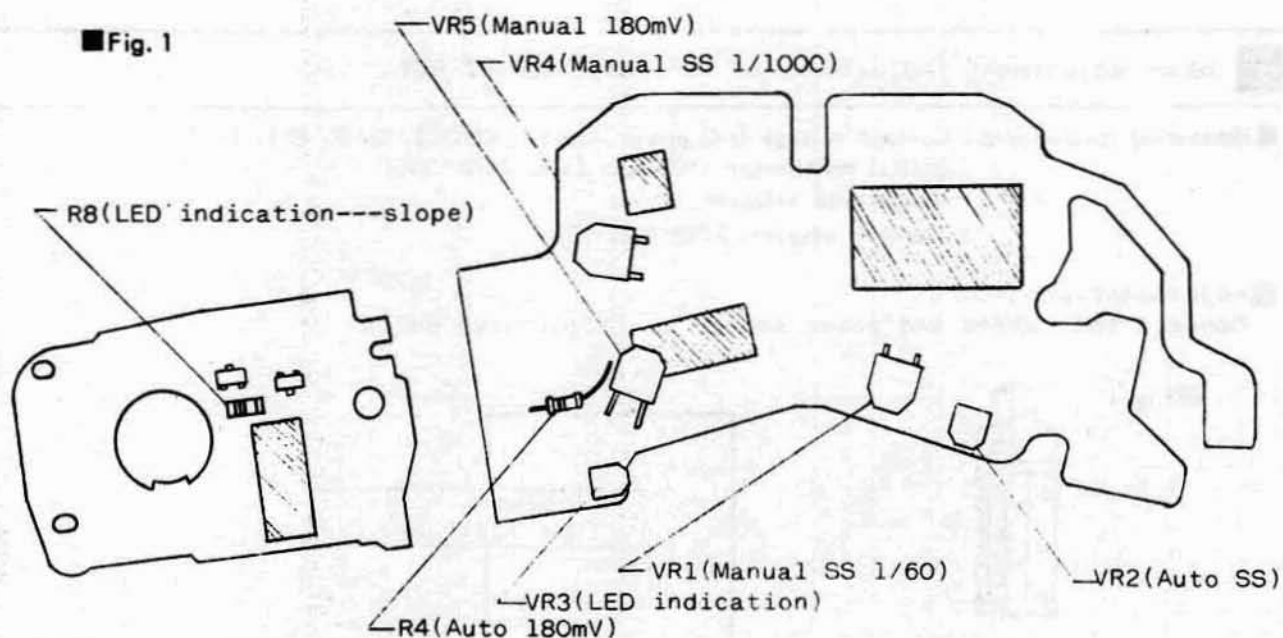
2. Assembly, adjustment, etc.

	Page
■ Outer case assembly procedure-----	1
■ Exposure adjustment	
1 Manual 180mV adjustment-----	3
2 Auto 180mV adjustment-----	4
3 Manual shutter speed adjustment-----	5
4 Auto shutter speed adjustment-----	5,6
5 LED indication adjustment-----	7
■ PV. SW timing check-----	8
■ F No. in-finder adjustment-----	8
■ Wiring diagram-----	9
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Adjustment of each variable resistor and fixed resistor Fig.1.

Fig. 1



ASA 100 setting method, etc.

1. When adjusting the auto shutter speed and LED indication, used the temporary top cover (2019-1301-75) and set it to ASA100, as explained below.

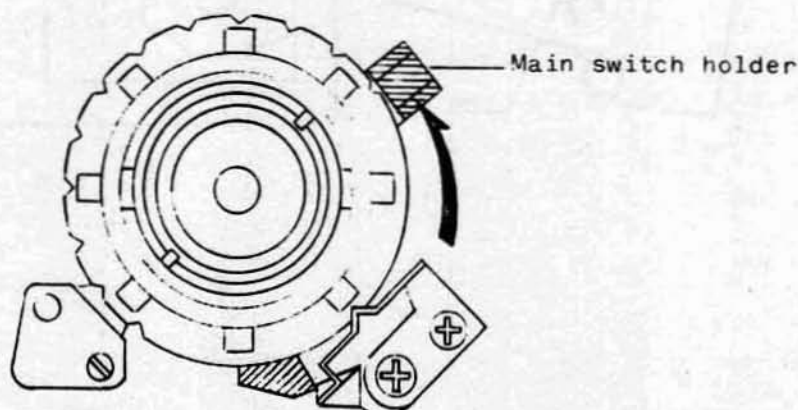
Fig. 2



- Turn 0266 (ASA brush holder). ASA100 is obtained when the column of 0266 touches the stopper of the temporary top cover.

2. Before adjustment, set the main switch to ON by turning 0293 (main switch holder) in the direction of the arrow below.

Fig. 3



— Refer to 2006 Service Manual (P.28) —

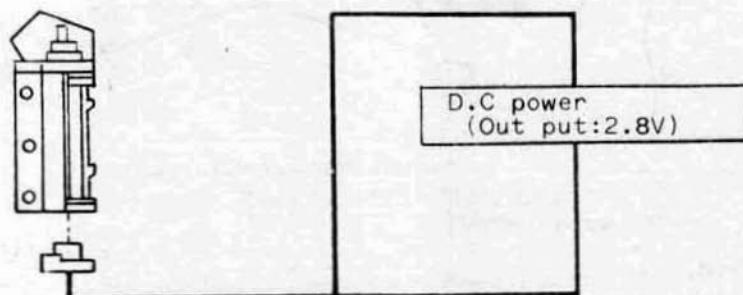
180mV adjustment (Adjustment of VR5, decision of R4)

- Measuring instruments : Constant voltage D.C power supply (MODEL 524B, E-1, E-2)
: Digital multimeter (MODEL 2508, 3476, 2507)
: Resistance selector
: Battery adapter (2006-0415-75)

■ Adjustment procedure

Connect the camera and power source as illustrated below.

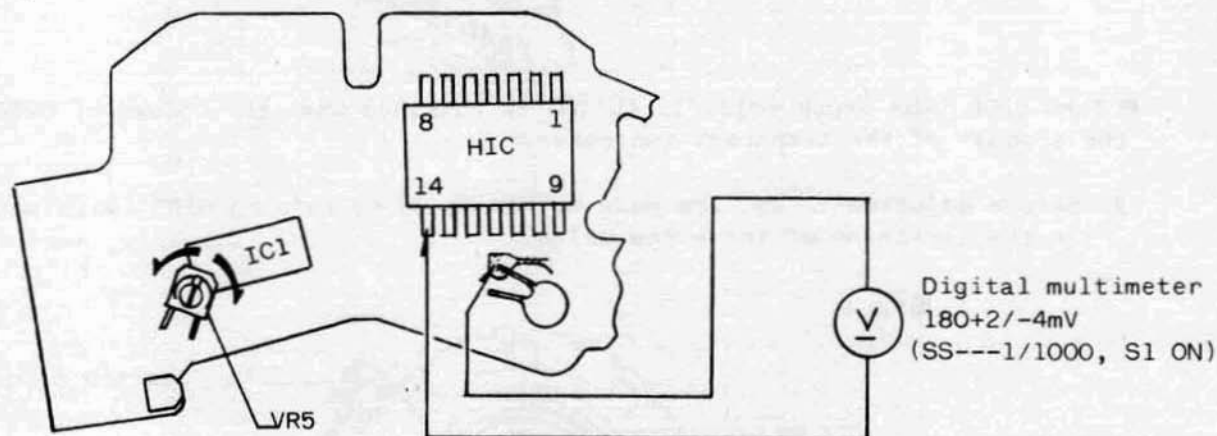
■ Fig. 1



1 Manual 180mV adjustment (adjustment of VR5)

1. Set the shutter dial to 1/1000, and main switch to ON.
2. Adjust by turning VR5 so that the voltage of (S1 ON) is 180mV (allowable range: $180 \pm 2/-4\text{mV}$), When shutter button is pushed as in Fig.2.

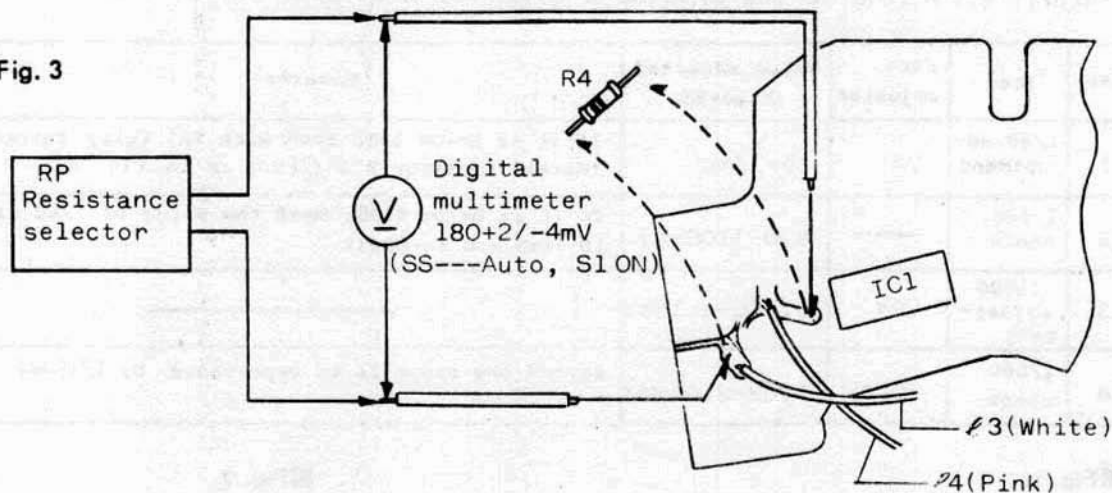
■ Fig. 2



2 Auto 180mV adjustmnet (selection of R4)

1. Remove R4 and solder the lead (X2) to the position of R4, then connect the tester as illustrated below.

■ Fig. 3



2. Set the shutter dial to A (auto) and main switch to ON; then shift the dial of Rp resistance selector so that the voltage of (S1 ON) approaches **180mV** (allowable range: $180+2/-4$ mV), when shutter button is pushed.
 3. From those in the following table, pick the R4 that is closest to the resistance obtained by the Rp resistance selector; then solder it to the flexible board.
- After soldering, mask sure the voltage is $180+2/-4$ mV when measured at either terminal of R4 (in this case, remove the Rp resistance selector).
 - If the voltage is not within $180+2/-4$ mV, re-check it by changing the resistance fo R4, one rank higher of lower.

[Kinds of R4]

Resistance (K Ω)	Part No.	Resistance (K Ω)	Part No.
20	9422-2036-32	39	9422-3936-32
22	9422-2236-32	47	9422-4736-32
24	9422-2436-32	56	9422-5636-32
27	9422-2736-32	68	9422-6836-32
30	9422-3036-32	100	9422-1046-32
33	9422-3336-32	200	9422-2046-32

Manual shutter speed adjustment (adjustment of VR1 VR4)

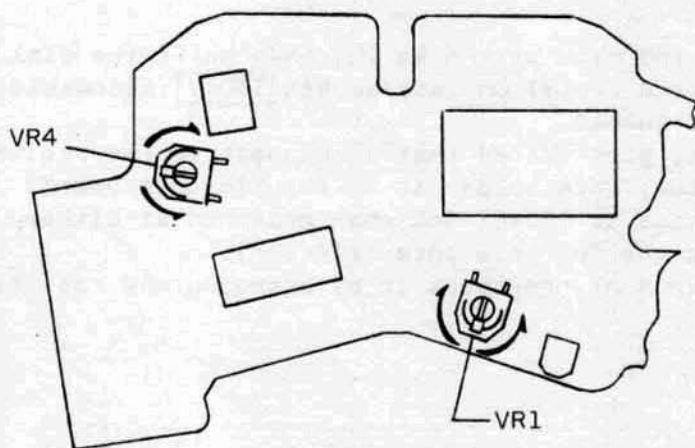
■ Measuring instruments: Shutter tester (MODEL S-2101, FS-1DMN4)

■ Adjustment procedure

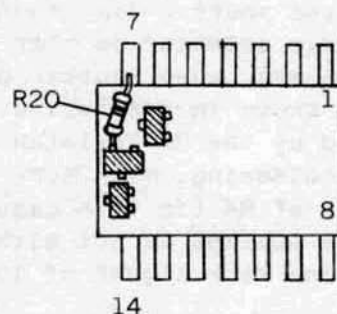
1. Adjust according to the procedure given in the table below.

Step	Item	Part adjusted	Value adjusted (checked)	Remarks
1	1/60 adjustment	VR1	15-17ms	If it is below 15ms even with VR1 fully turned, install resistor R20 (24K Ω) as in Fig. 2.
2	1 sec. check	—	(830-1100ms)	If it is below 80ms, make the value of 1/60 within 15-18ms and re-check.
3	1/1000 adjustment	VR4	0.865-1.15ms	—
4	1/500 check	—	(1.62-2.42ms)	Beyond the range it is superseded by 1/1000.

■ Fig. 1



■ Fig. 2



Auto shutter speed adjustment (adjustment of VR2)

* The adjusting method at EE level with the use of EE tester is described in this paragraph. When making shutter speed adjustment using a timer counter, as in the 2006 service manual, connect the tester as shown in Fig.3 on P6.

■ Measuring instruments: EE tester (MODEL EE-2101, EE-2111)

: Standard luminance box (MODEL L-2101, L-222, L-223)

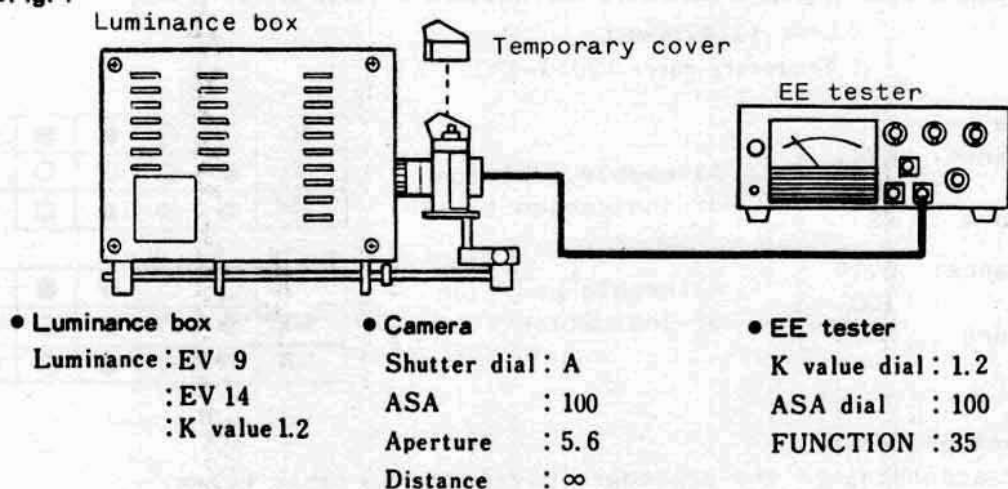
: Lens (1.4/50mm)

: Temporary cover (2019-1301-75)

■ Adjustment procedure

1. Set the camera and tester as illustrated below.

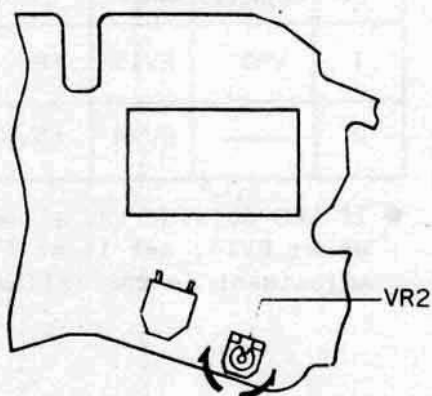
■ Fig. 1



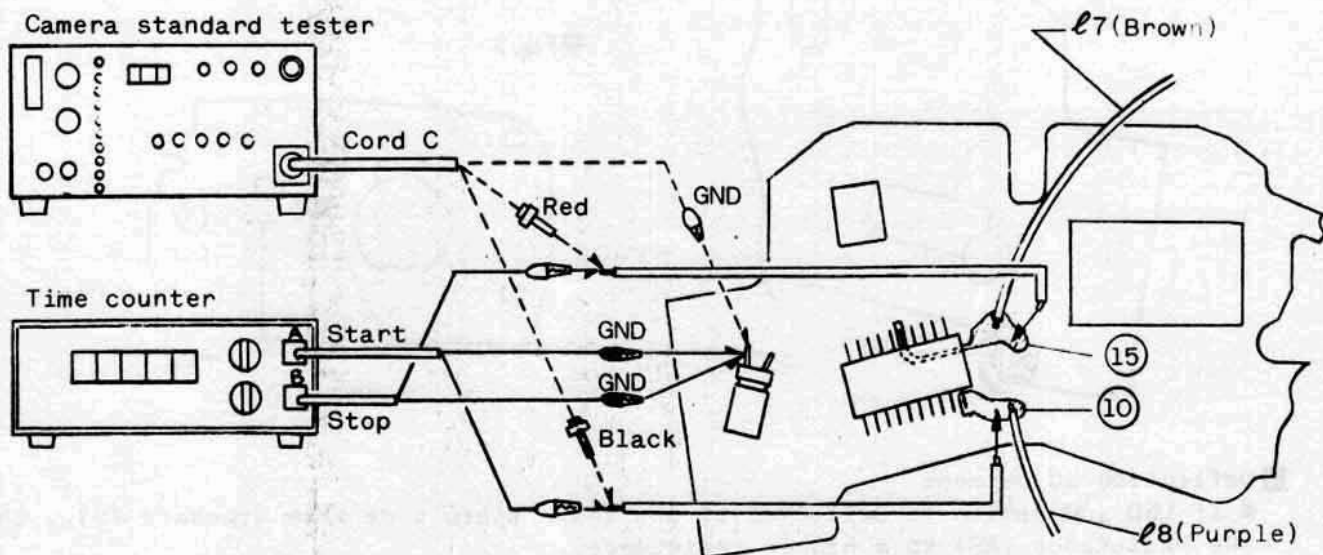
2. Adjustment according to the procedure given in the table below.

Step	Lumi-nance	Part adjusted	Allowable range
1	EV9	VR2	$0 \pm 0.8 \text{ EV}$
2	EV14	Beyond the allowable range, it is superseded by EV9.	

■ Fig. 2



■ Fig. 3 (How to connect the time counter or camera standard tester).



● As shown above, solder the measuring lead to terminal ⑩ (start signal) and ⑮ (stop signal) of IC1, and then connect it to the time counter or camera standard tester.

● For the tester setting and adjustment procedure, refer to 2006 Service Manual (P32.)

■ Measuring instruments: Standard luminance box (MODEL L-2101, L-222, L-223)

: Lens (1.4/50mm)

: Temporary cover (2019-1301-75)

■ Standards

(1) Luminance: EV11 } Allowable position
 ASA : 100 } of indication (± 1 EV)
 Aperture : F8 }

(2) Luminance: EV14 } Allowable position
 ASA : 100 } of indication
 Aperture : F5.6 }

60	●	○	●	●	●
30	●	○	○	○	●
15	●	●	●	○	○

1000	○	○	●	●	●
500	●	○	○	○	●
250	●	●	●	○	○

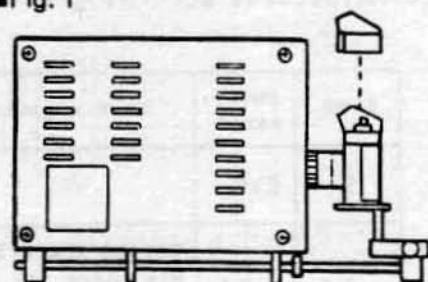
■ Adjustment procedure

1. Adjust according to the procedure given in the table below.

Step	Part adjusted	Luminance	F No.	Value adjusted	Allowable range
1	VR3	EV11	F8	LED "30" ON	Standard(1)
2	—	EV14	F5.6	—	Standard(2)

- If LED outside the allowable range lights up at EV14, set it at EV11 or mask the adjustment in the following paragraph.

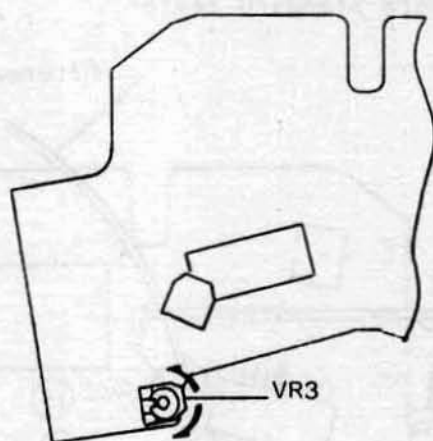
■ Fig. 1



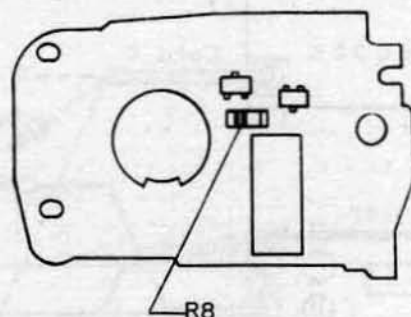
● Luminance box
 Luminance: EV9
 EV14
 K value : 1.2

● Camera
 Shutter dial: A
 ASA : 100

■ Fig. 2



■ Fig. 3



■ Deflection adjustment

- If LED indication is deflected to the lower speed side from standard (2)...Change the resistance (R8) to a higher resistance.
- If LED indication is deflected to the higher speed side from standard (2)...Change the resistance (R8) to a lower resistance.

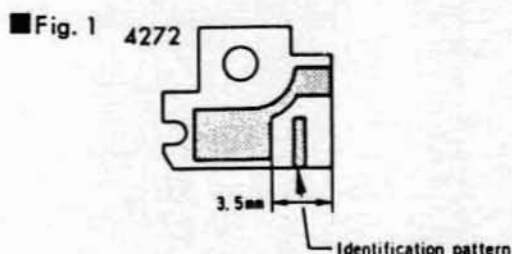
After changing the resistance (R8), perform the adjustment from the beginning.

■ The PV. switch is designed to turn on when the PV. button is depressed 2.0mm. There is no chance of abnormality unless locking operations of the PV. lever and actuation of the PV. switch are performed out of sequence. So, check the switch according to the following procedure.

(The positions of PV. lever and switch are closest to each other unless inversion occurs between the operational timings of these parts. The range within which the mirror is allowed to be half raised is narrowed, and this is satisfactory.)

[OFF operation check]

1. Set the shutter dial to B.
 2. When the shutter is being released with shutter button pressed, the operation will be satisfactory if pushing the PV. button until the PV. lever is locked does not cause the second curtain to run.
- In case the second curtain runs (the PV. switch turns ON), replace the adjusting PV. lock base plate (4273) and adjust the PV. switch to delay in turning ON.

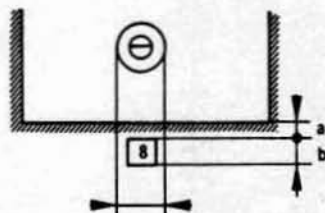


[ON operation check]

1. Push the shutter button with the PV. button fully depressed. It is satisfactory if the shutter is not released.

F No. in-finder adjustment

■ Specification



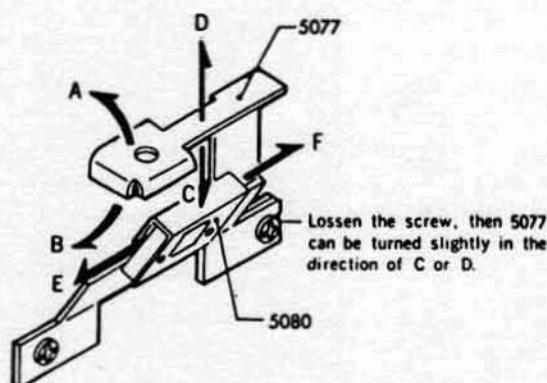
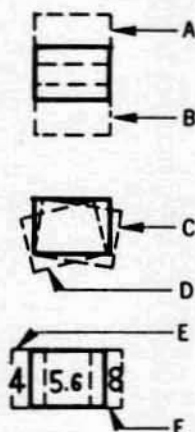
- The F no. indication should be within the frame, and any adjacent number should be invisible at F 5.6.
- Frame position : Height..... $0 < a \leq b$
: Within the microprism

■ Adjustment

Check for deflection referring to Fig.2. Then make the adjustment by bending (shifting) 5077 and 5080 in each direction of A~E as shown in Fig.3.

■ Fig. 2 (Normal position is shown by thick lines.)

■ Fig.3



WIRING SCHEMATIC DIAGRAM **XG-M CODE No. 2019**

0420 Battery case base plate

E₁ Red

E₁ Blue

0427 Connector P.C. board
E₁ Blue

Magnetic release base plate
0580

Sync switch

E₁ Green
E₁ Light Blue

0153 Remote control base plate

E₁ Grey
E₁ Grey

E₁ Yellow
E₁ White
E₁ Pink

E₁ Brown

E₁ Purple

E₁ Black

E₁ Orange

E₁ White

E₁ Blue

E₁ Green

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Trouble Shooting Chart

1. Hints on use of Trouble Shooting Chart

1. This chart includes the symptoms and causes of troubles on the camera side.
2. Even when a symptom appears on the camera side, the trouble is not always on the camera side but in connection with the replacement lens, winder or exclusive strobo. Therefore, carefully check operations related to the auxiliary parts before using this chart.

2. Contents of Chart

Unlike a conventional flow chart, defects and their symptoms are theoretically analyzed in this chart.

3. Precautions for Work


1. A digital tester (2507) is to be used as the measuring instrument. It is also allowable to use other measuring instruments when the input impedance exceeds 10 M Ω .
2. Use the measuring instrument to check voltages, and a tester of less than 3V to check current conduction.
3. It can be safely said that troubles of electric parts such as IC's diodes, transistors, resistors, capacitors, etc. seldom occur. It is therefore practical to put emphasis on checking for defective soldering of lead wires and electric parts, defective switches, etc.
4. When checking for defective soldering, do not excessively press the parts or pull the lead wires.
5. When measuring voltage, attach a pin to the end of alligator clip because the portion measured is very narrow. Do not directly connect the alligator clip with the portion measured; otherwise damage to the electric parts or to the pattern may occur.
6. When measuring the switch operation pattern, take care not to scratch the pattern outside the switch operation range. In case of a switch contact, take care not to disturb the switch contact.
7. When removing electric parts, pull out the power supply cord.
8. The desirable soldering iron temperature is about 260~300°C. In any case, finish soldering in a few seconds. Be sure to remove chips before soldering.

4. How to use the Trouble Shooting Chart

1. Problems (symptoms) are listed horizontally, according to function. First check the symptoms of the camera and then find the defective parts reading this chart.

2. Symblos used in the chart

2-1 Description of problem

- * For open parts, defective soldering, disconnected leads, defective switch contacts, etc., are mentioned, including part of shortcircuit problems.  show that the lead is caught by top cover or mechanism, causing it to become grounded.
- * For the termal pressure setting between flexible and other boards, the symbol is as shown in the flexible pattern diagram.

2-2 Description for symptom

- * For SS and indication functions,

o....normal; x....defective;

blank....release impossible;

A....auto mode; M....manual mode

- * For self function, considerations are given mainly to blinking of LD13. For self release, refer to the release colum.

- * The blanks in release, self, bulb, strobe and BC shown that the operations are normal.

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
IC1 (1)		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes				
(2)		○	▲ lights up	▲ lights up	○	A:No M:Yes				
(3)		○	▲ lights up	▲ lights up	○	A:No M:Yes				
(4)	Kept open	No exposure	X	X	○					
(5)	No exposure	No exposure	○	○	○					
(6)	No exposure	No exposure	○	X	○					Low on the whole ----LED indication
(7)		○	▲ lights up	▲ lights up	○	A:No M:Yes				
(8)	○	○	○	○	○					(1/60 LED not brinking) (Doesn't come 1/60)
(9)			○	○	○	X				
10	No exposure	No exposure	○	○	○					
11	No exposure	No exposure	○	○	○					
12	Kept open	Kept open	○	○	○					
13	○	○	○	○	○					(1/60 LED not brinking)
14		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes		No exposure		(1/60 LED not brinking) (Doesn't come 1/60)
15	No exposure	No exposure	○	○	○			No exposure		
16	No exposure	No exposure	○	○	○			No exposure		
17	Kept open	○	X	X	○					
18	*1	○	*2	*2	○					When change SV & AV, doesn't change LED & SS
19		○	▲ lights up	▲ lights up	○	A:No M:Yes				
20	Kept open	○	X	X	○					
IC2 (1)	○	○	X(1/1000)	X(1/1000)	○					
(2)	○	○	X(▲)	X(▲)	○					Doesn't work▲lock
(3)	○	○	○	○	○					
(4)	*3	*3	○	○	○					LED doesn't turn off
(5)	*3	*3	○	○	○					
(6)	○	○	X	X	○					
(7)		○	▲ lights up	▲ lights up	○	A:No M:Yes				
(8)	○	○	○	○	○					LED doesn't follow by EV
(9)	○	○	X(▼)	X(▼)	○					
10	○	○	X (1/2)	X (1/2)	○					

*1 : Become fast speed
 *2 : High on the whole
 *3 : Kept open with Remocon

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
IC2(1)	○	○	X (1/4)	X (1/4)	○					
(2)	○	○	X (1/8)	X (1/8)	○					
(3)	○	○	X	X	○					
(4)	○	○	X (1/15)	X (1/15)	○					
(5)	○	○	X (1/30)	X (1/30)	○					
(6)	○	○	X (1/60)	X (1/60)	○					
(7)	○	○	X (1/125)	X (1/125)	○					
(8)	○	○	X	X	○					
(9)	○	○	X (1/250)	X (1/250)	○					
(10)	○	○	X (1/500)	X (1/500)	○					
IC3 (1)			○	○	○	X	X	X		
(2)	Bulb	Bulb	○	○	○					
(3)	○	○	○	○	○					Doesn't release with low voltage
(4)	○	○	○	○	○		X (Only no brinkinh)			
(5)	○	○	○	○	○		X (Only no brinking)		X	
(6)	○	○	○	○	○		X			
(7)	*3	*3	○	○	○		X			
(8)	abnormal	abnormal	○	○	○	X		X		
(9)	○	○	○	○	○			X		
(10)			○	○	○	X	X	X	X	
HIC (1)	Kept open	Kept open	X	X	X					
(2)			X	X	X					
(3)	Kept open	Kept open	X	X	X					
(4)			○	○	○	X	X	X		
(5)			○	○	○	X	X	X		
(6)			○	○	○	X	X	X		
(7)			○	○	○	X		X		
(8)			○	○	○	X		X		
(9)			○	○	○	X		X		
(10)			○	○	○	X		X		

*3 : Kept open with Remocon.

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
HIC ①	○	○	○	○	○					LED keeps lighting on MD-1 or winder side
⑫	No exposure	No exposure	○	○	○			No exposure		
⑬	Kept open	Kept open	X	X	X					
⑭	○	No exposure	○	○	○					
Flexible board ①			○	○	○	X	X	X		
②	*3	*3	○	○	○					Same as IC-2 ⑤
③			○	○	○	X	X	X		Same as HIC ⑦
④	*3	*3	○	○	○		X (Doesn't release)			M letter doesn't turn off
⑤	*3	*3	○	○	○		X (Doesn't release)			
⑥			X	X	X	X	X	X	X	
⑦	○	○	○	○	○					Doesn't work ▲ lock
⑧	○	○	○	○	○					(1/60 LED not blinking)
⑨			X	X	X	X	X	X	X	
⑩	High speed	○								Same as IC 1 ⑮
⑪		○	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC 1 ⑮
⑫	Kept open	Kept open	X	X	○					
⑬			○	○	○	X	X	X		
⑭	○	○	○	○	X					
⑮	○	○	○	○	○					Doesn't work ▲ lock
⑯	○	○	X	X	X					
⑰	○	○	X	X	○					Same as IC2 ⑥
⑱		○	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC2 ⑦
(A)	○	○	○	○	○				X	
(B)			X	X	X	X	X	X	X	
(C)	○	○	○	○	○					LED keeps lighting on MD-1 or winder side
(D)	○	No exposure	○	○	○					LED indication deflected
(E)	○	No exposure	○	○	○					LED indication deflected
(F)	○	No exposure	○	○	○					LED indication deflected
(G)			X	X	X	X	X	X		
(H)	○	○	○	○	X					

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
Flexible board (I)	<input type="radio"/>	<input type="radio"/> (or no exposure)	<input type="radio"/>	<input checked="" type="radio"/> lights up						
(J)	No exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Indication doesn't match between A and M mode
(K)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Doesn't work ▲ lock
(L)		<input type="radio"/> (or no exposure)	<input checked="" type="radio"/> lights up	<input checked="" type="radio"/> lights up	<input type="radio"/>	A:No M:Yes				
(M)	No exposure	No exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Same as IC1 (5)
(N)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Doesn't work ▲ lock
(O)		<input type="radio"/>	<input checked="" type="radio"/> lights up	<input type="radio"/>	<input type="radio"/>	A:No M:Yes				
SW1	<input type="radio"/>	<input type="radio"/>	X	X	X					
SW1 π	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					LED keeps lighting
SW2			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	X	X		
SW2 π	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					*4
SW3	No exposure	No exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
SW3 π	Kept open	Kept open								
SW4			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	X	X		
SW4 π			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	X	X		
SW5	Bulb	Bulb	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
SW5 π	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			X		
SW6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		X			
SW6 π	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Self is activated at all time
SW7			X	X	X	X	X			
SW7 π	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
SW8-1A	No exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Same as (J)
SW8-1M	<input type="radio"/>	No exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Same as (F)
SW8-2A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Same as (K)
SW8-3A		<input type="radio"/>	<input checked="" type="radio"/> lights up	<input type="radio"/>	<input type="radio"/>	A:No M:Yes				Same as (O)
SW8-3M	<input type="radio"/>	No exposure	<input type="radio"/>	<input checked="" type="radio"/> lights up	<input type="radio"/>					Same as (I)
SW8-4A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					Doesn't work ▲ lock

*4: Shutter is operated with winding lever sifted back.

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
SW8-3, 4A			▲ lights up			A: No M: Yes	▲ lock	▲ lock		
SW8-3, 4M		No exposure		▲ lights up	○					
SW12	○	○	○	○	○					Shutter is operated with PV. button depressed
SW12 TTT			○	○	○	X	X	X		
SW21	○	○	○	○	○				X	
SW21 TTT	○	○	○	○	○					B.C keeps lighting
R, RC	△	○	△	△	○					EE & indication linearity change great (only A)
R2	Kept open	○	X	X	○					
R4	△	○	△	△	○					
R5, D1	○	○	○	○	○					Same as IC3③
R6	○	○	○	○	○		X			
R7	○	○	○	○	○		(only no brinking)			
R8	○	○	○	○	○					Deflect indication linearity
R9	○	○	X	X	○					
R10	○	○	○	○	○				△	Deflect B.C voltage
R11	○	○	○	○	○					Same as ①
R12	○	○	○	○	○					Deflect shutter speed by temperature
R13, 14, 15	○	○	○	○	X					
R16	○	○	○	○	○					Doesn't operate MD-1 & winder
R17	○	○	○	○	○					Same as ②
R18	○	○	○	○	○					Possible wrong operation with MD-1 or winder
R19			○	○	○	X		X		
C1	Kept open	Kept open	○	○	○					
C2	No exposure	No exposure	○	○	○					
C3	△	△	○	○	○					Excessive variation
C4	○	○	○	○	○		X			
C5	*3	*3	○	○	○		X			

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
C6			○	○	○	X		X		
C7	High speed	High speed	○	○	○					Metering circuit oscillates
C8	○	○	○	○	○					SS & LED unstable when battery capacity low
C9	○	○	○	○	○					Possible wrong operation with MD-1 or window
D2	○	○	○	○	○					Brinking sclr LED by S2 on when ▲ lights up
TC	○	○	○	○	○					Same as R12
VR1	○	No exposure	○	○	○					
VR2	No exposure	○	○	○	○					Same as ③
VR3		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes				Same as ④
VR4	No exposure	No exposure	○	○	○					
VR5	kept open	kept open	X	X	○					
TR1	○	○	○	○	○					Doesn't work ▲ lock
TR2, TR3	○	○	○	○	X					
TR4, TR5	○	○	○	○	○					No operation MD-1 & winder
①(Green)	kept open	○	X	X	○					
① III	Kept open	kept open	X	X	X					Short circuit when S1. on
②(Blue)	Kept open	○	X	X	○					
② III	Kept open	○	X	X	○					
③(White)	○	○	○	○	○					Doesn't change SS & LED by AV
③ III		○	▲ lights up	▲ lights up	○	A:No M:Yes				
④(Pink)	Kept open	○	▼ lights up	▼ lights up	○					
④ III	Kept open	○	▼ lights up	▼ lights up	○					
⑤(Yellow)	High speed	○	▲ lights up	▲ lights up	○	A:No M:Yes				
⑤ III	Kept open	○	X	X	○					
⑥(Yellow)	○	○	○	○	○		X			
⑥ III	○	○	○	○	○					All mode self function
⑦(Brown)	No exposure	No exposure	○	○	○			X		
⑦ III	Kept open	Kept open	○	○	○			X		
⑧(Purple)	No exposure	No exposure	○	○	○					
⑧ III	Kept open	Kept open	○	○	○					

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others ()----with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
ø9(Orange)	○	○	○	○	○		(Only no lighting)			
ø9 π	○	○	○	○	○		(LED keeps lighting)			
ø10(Red)	No exposure	No exposure	○	○	○		(Only no lighting)	X	X	
ø10 π			X	X	X	X	X	X	X	Power source short circuit
ø11(Blue)	○	○	○	○	○	X(Remocon)				
ø11 π	○	○	○	○	○			X		
ø12(Grey)	○	○	○	○	○	X(Remocon)				
ø12 π	○	○	○	○	○					*4
ø13(Yellow)	○	○	○	○	○					Doesn't work ▲ lock
ø13 π	Kept open	Kept open	X	X	X					Power source short circuit
ø14(R. blue)	○	○	○	○	○					Shutter is operated with PV button depressed
ø14 π			○	○	○	X		X		
ø15(White)	○	○	○	○	○					Same as IC1⑧
ø15 π	○	○	○	○	○					Same as IC1⑧
ø16(Green)	○	○	○	○	○					(Strobe doesn't fire)
ø16 π	○	○	○	○	○					(Strobe doesn't fire)
ø17(Green)	○	○	○	○	○					(Strobe doesn't fire)
ø17 π	○	○	○	○	○					(Strobe doesn't fire)
ø18(Brown)			○	○	○	X		X		
ø18 π			○	○	○	X		X		
ø19(Blue)			○	○	○	X	X	X		
ø19 π			X	X	X	X	X	X		Power source short circuit
ø20(Red)			X	X	X	X	X	X	X	
ø20 π			X	X	X	X	X	X	X	Power source short circuit
ø21(Orange)			○	○	○	X		X		
ø21 π			○	○	○	X		X		Too early exhaustion battery
ø22(White)			○	○	○	X	X	X		
ø22 π			○	○	○	X	X	X		Short circuit with S4 on
ø23(Black)			X	X	X	X	X	X	X	

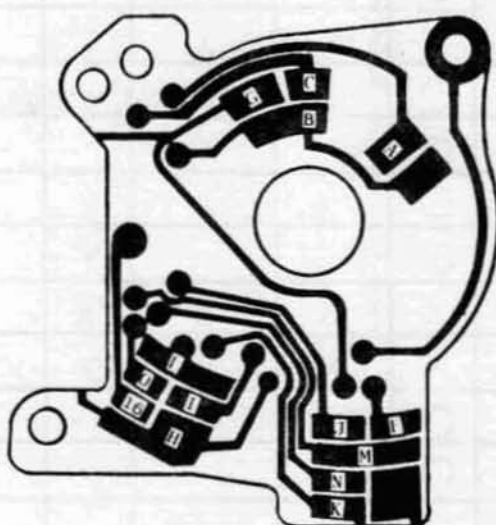
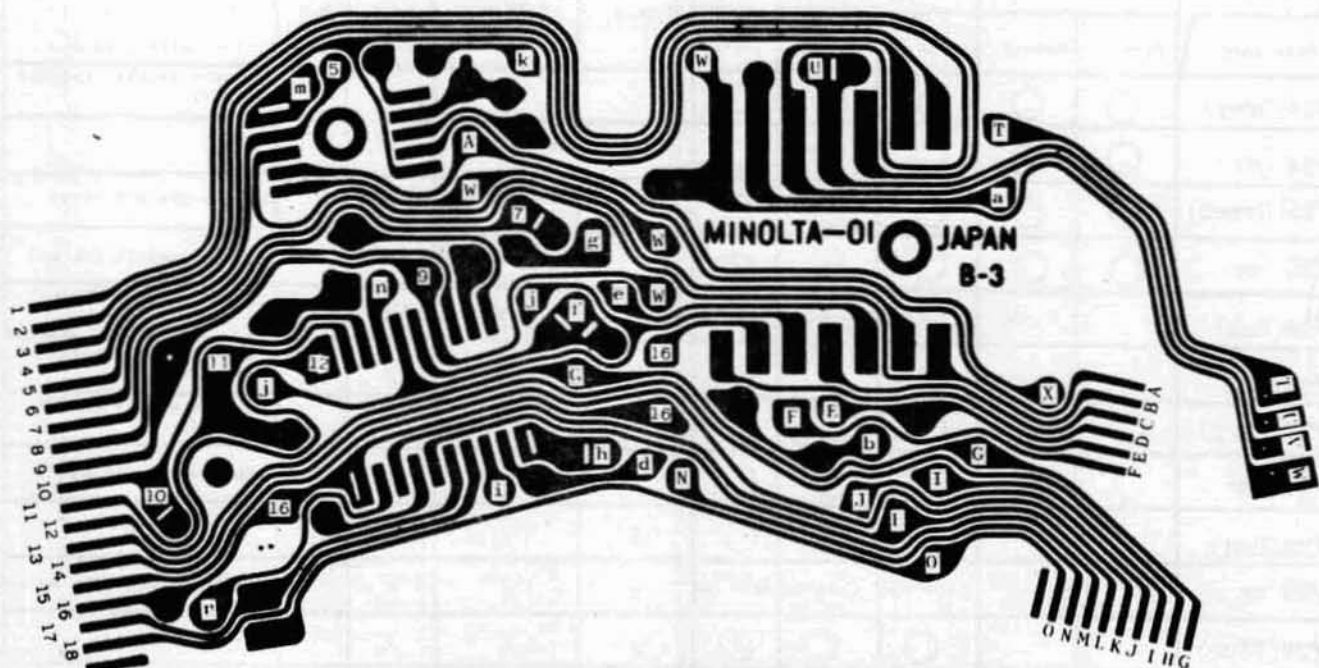
*4 : Shutter is operated with winding lever sifted back.

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Other
	Auto	Manual	Auto	Manual	M letter					
Open part										()----with strobe
ø24(Grey)	○	○	○	○	○					Doesn't shutter release by MD-1
ø24 III	○	○	○	○	○	*4	*5			
ø25(Green)	○	○	○	○	○					(Strobe doesn't fire)
ø25 III	○	○	○	○	○					(Strobe doesn't charge)
ø26(Red)			X	X	X	X	X	X	X	
ø26 III			X	X	X	X	X	X	X	Power source short circuit
ø27(Purple)	○	○	○	○	○					Doesn't work touch SW of MD-1
ø27 III	○	○	○	○	○					LED keeps lighting
ø28(Red)			○	○	○	X	X	X		
ø28 III			X(S4 on)	X(S4 on)	X(S4 on)	X	X	X		Short circuit with S4 on
ø29(Blue)			○	○	○	X	X	X		
ø29 III			X	X	X	X	X	X		Power source short circuit
ø30(White)	○	○	○	○	○		X			
ø30 III	○	○	○	○	○		X			
ø31(Blue)			○	○	○	X	X	X		
ø31 III	○	○	○	○	○			X		
ø32(Red)			X	X	X	X	X	X		
ø32 III			X	X	X	X	X	X	X	Power source short circuit
ø33(White)	○	○	○	○	○					Doesn't work lock
ø33 III			○	○	○	X		X		
ø34(R.blue)	○	○	○	○	○					*6
ø34 III			○	○	○	X		X		
J1			X	X	X	X	X	X	X	
J2	Kept open	Kept open	X	X	X					
SL1	No exposure	No exposure	○	○	○			No exposure		
SL1 III	No exposure	No exposure	○	○	○			No exposure		
SL2			○	○	○	X		X		
SL2 III			○	○	○	X		X		

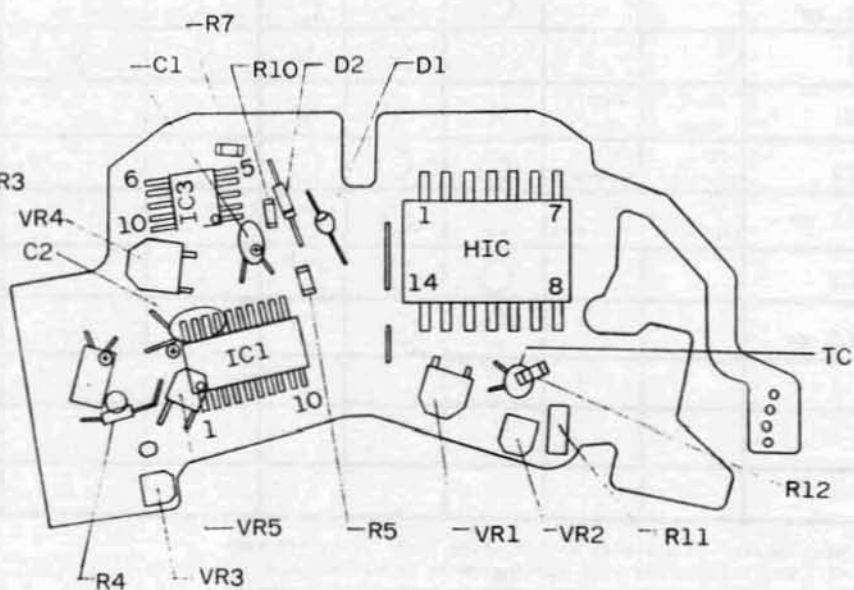
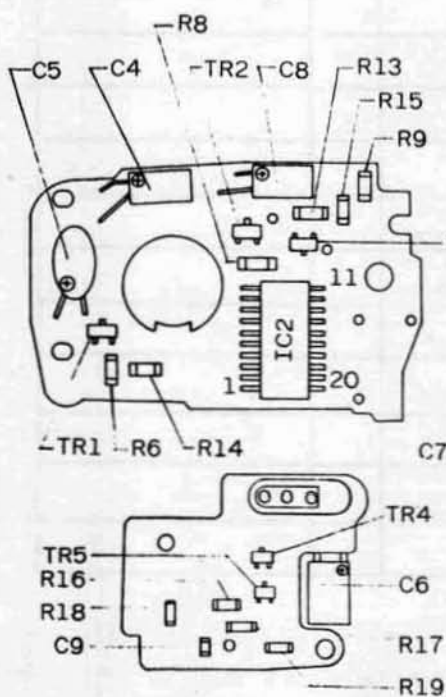
*4 : Shutter is operated with winding lever is sifted back

*5 : Self is started with winding lever is sifted back

*6 : Possible shutter release with PV button is depressed



- A : S21
- B : Power source \oplus line
- C : S7 OFF
- F : S8-1(M)
- G : S7 ON
- H : S8-4(COM)
- I : S8-3(M)
- J : S8-1(A)
- K : S8-2(A)
- L : S8-3(COM)
- M : S8-1(COM)
- N : S8-2(COM)
- O : S8-3(A)
- 16 : S8-4(A)



Connector P.C board (0427)

Mg. wiring P.C board (0267)

LED P.C board

P.C board A

P.C board B
(0152)

Flexible P.C board

